



IC

# 放大器 / 比较器

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通用IC

A

放大器 / 比较器

## 运算放大器/比较器

## 运算放大器/比较器

## 运算放大器

通用

接地检测运算放大器  
车载用接地检测运算放大器

►P.A12  
►P.A13

高速

输入输出全振幅运算放大器  
接地检测运算放大器  
车载用接地检测运算放大器

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输入输出全振幅运算放大器  
接地检测运算放大器

►P.A15  
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低噪声

输出全振幅运算放大器  
车载用运算放大器  
双电源运算放大器

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低偏置电压

接地检测运算放大器  
双电源运算放大器  
输入输出全振幅运算放大器

►P.A18  
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## 比较器

通用

集电极开路比较器  
通用标准系列接地检测运算放大器  
车载用集电极开路比较器

►P.A18  
►P.A18  
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高速

推挽输出比较器  
漏极开路比较器

►P.A19  
►P.A19

低消耗电流

推挽输出比较器  
漏极开路比较器

►P.A19  
►P.A19

低偏置电压

集电极开路比较器

►P.A19

## 运算放大器

通用

## 接地检测运算放大器

| Part No.    | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)                  | Output Voltage Range(V)                 | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package  |
|-------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|-----------------------------------------|-----------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|----------|
| BA2904F     | ○             | 2  | 3 to 36           | 0.5                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2              | 0.5                          | -40 to +125                | SOP8     |
| BA2904FV    | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B8  |
| BA2904FVM   | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | MSOP8    |
| BA2904YF-LB | ○             | 2  | 3 to 36           | 0.5                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2              | 0.5                          | -40 to +125                | SOP8     |
| BA2904SF    | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP8     |
| BA2904SFV   | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B8  |
| BA2904SFVM  | ○             | 2  | 3 to 36           | 0.5                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2              | 0.5                          | -40 to +105                | MSOP8    |
| BA2902F     | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP14    |
| BA2902FV    | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B14 |
| BA2902YF-LB | ○             | 4  | 3 to 36           | 0.7                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2              | 0.5                          | -40 to +125                | SOP14    |
| BA2902SF    | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP14    |
| BA2902SFV   | ○             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B14 |
| BA3404F     | —             | 2  | 4 to 36           | 2.0                 | 2.0                      | 70                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -2.0 | V <sub>EE</sub> to V <sub>CC</sub> -2.0 | 100              | 90        | 94        | 1.2              | 1.2                          | -40 to +85                 | SOP8     |
| BA3404FJ    | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP-J8   |
| BA3404FVM   | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | MSOP8    |
| BA10358F    | —             | 2  | 3 to 32           | 0.5                 | 2.0                      | 45                     | 20                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2              | 0.5                          | -40 to +85                 | SOP8     |
| BA10358FV   | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B8  |
| BA10358FJ   | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP-J8   |
| BA10324AF   | —             | 4  | 3 to 32           | 0.6                 | 2.0                      | 20                     | 35                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 75        | 100       | 0.2              | 0.5                          | -40 to +85                 | SOP14    |
| BA10324AFV  | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SSOP-B14 |
| BA10324AFJ  | —             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                  |                              |                            | SOP-J14  |

产品等级：—…标准 ○…高级

通用标准系列接地检测运算放大器

| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)                  | Output Voltage Range(V)                 | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/ $\mu$ s) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package  | AEC-Q100 |
|--------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|-----------------------------------------|-----------------------------------------|------------------|-----------|-----------|------------------------|------------------------------|----------------------------|----------|----------|
| BA2904YF-C   | ●             | 2  | 3 to 36           | 0.5                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2                    | 0.5                          | -40 to +125                | SOP8     | YES      |
| BA2904YFV-C  | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | SSOP-B8  | YES      |
| BA2904YFVM-C | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | MSOP8    | YES      |
| BA2902YF-C   | ●             | 4  | 3 to 36           | 0.7                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2                    | 0.5                          | -40 to +125                | SOP14    | YES      |
| BA2902YFV-C  | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | SSOP-B14 | YES      |
| BA2904YF-M   | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | SOP8     | YES      |
| BA2904YFV-M  | ●             | 2  | 3 to 36           | 0.5                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2                    | 0.5                          | -40 to +125                | SSOP-B8  | YES      |
| BA2904YFVM-M | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | MSOP8    | YES      |
| BA2902YF-M   | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | SOP14    | YES      |
| BA2902YFV-M  | ●             | 4  | 3 to 36           | 0.7                 | 2.0                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | V <sub>EE</sub> to V <sub>CC</sub> -1.5 | 100              | 80        | 100       | 0.2                    | 0.5                          | -40 to +125                | SSOP-B14 | YES      |
| BA2902YFV-M  | ●             |    |                   |                     |                          |                        |                    |                                         |                                         |                  |           |           |                        |                              |                            | SSOP-B14 | YES      |

产品等级：-...标准 ●...车载等级

## 高速

输入输出全振幅运算放大器

| Part No.   | Product Grade | CH | Supply Voltage(V) | Circuit Current( $\mu$ A) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)             | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/ $\mu$ s) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package      |
|------------|---------------|----|-------------------|---------------------------|--------------------------|------------------------|--------------------|------------------------------------|----------------------------------------------|------------------|-----------|-----------|------------------------|------------------------------|----------------------------|--------------|
| BU7261G    | —             | 1  | 1.8 to 5.5        | 250                       | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.1                    | 2.0                          | -40 to +85                 | SSOP5        |
| BU7261SG   | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | SSOP5        |
| BU7262F    | —             | 2  | 1.8 to 5.5        | 550                       | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.1                    | 2.0                          | -40 to +85                 | SOP8         |
| BU7262FVM  | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | MSOP8        |
| BU7262NUX  | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | VSON008X2030 |
| BU7262SF   | ○             | 2  | 1.8 to 5.5        | 550                       | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.1                    | 2.0                          | -40 to +105                | SOP8         |
| BU7262SFVM | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | MSOP8        |
| BU7262SNUX | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | VSON008X2030 |
| BU7264F    | —             | 4  | 1.8 to 5.5        | 1100                      | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.1                    | 2.0                          | -40 to +85                 | SOP14        |
| BU7264FV   | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | SSOP-B14     |
| BU7264SF   | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | SOP14        |
| BU7264SFV  | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | SSOP-B14     |
| BU7291G    | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | SSOP5        |
| BU7291SG   | ○             | 1  | 2.4 to 5.5        | 470                       | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 105              | 60        | 80        | 3.0                    | 2.8                          | -40 to +105                | SSOP5        |
| BU7294F    | —             | 4  | 2.4 to 5.5        | 2000                      | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 105              | 60        | 80        | 3.0                    | 2.8                          | -40 to +85                 | SOP14        |
| BU7294FV   | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | SSOP-B14     |
| BU7294SF   | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | SOP14        |
| BU7294SFV  | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | SSOP-B14     |
| BU7295HFV  | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | HVSOF5       |
| BU7295SHFV | ○             | 1  | 1.8 to 5.5        | 150                       | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.0                    | 1.0                          | -40 to +105                | HVSOF5       |
| BU7255HFV  | —             | 1  | 2.4 to 5.5        | 540                       | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 105              | 60        | 80        | 3.4                    | 4.0                          | -40 to +85                 | HVSOF5       |
| BU7255SHFV | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | HVSOF5       |
| BD7561G    | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | SSOP5        |
| BD7561SG   | ○             | 1  | 5 to 14.5         | 440                       | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 0.9                    | 1.0                          | -40 to +105                | SSOP5        |
| BD7562F    | —             | 2  | 5 to 14.5         | 900                       | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 0.9                    | 1.0                          | -40 to +85                 | SOP8         |
| BD7562FVM  | —             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +85                 | MSOP8        |
| BD7562SF   | ○             | 2  | 5 to 14.5         | 900                       | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 0.9                    | 1.0                          | -40 to +105                | SOP8         |
| BD7562SFVM | ○             |    |                   |                           |                          |                        |                    |                                    |                                              |                  |           |           |                        |                              | -40 to +105                | MSOP8        |

产品等级：-...标准 ○...高级

A

放大器 / 比较器

## 高速

A

放大器 / 比较器

## 接地检测运算放大器

| Part No.    | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)                   | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package      |
|-------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|------------------------------------------|----------------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|--------------|
| BA3472F     | —             | 2  | 3 to 36           | 4.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +85                 | SOP8         |
| BA3472FV    | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B8      |
| BA3472FJ    | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP-J8       |
| BA3472FVM   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | MSOP8        |
| BA3472FVT   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | TSSOP-B8     |
| BA3472RFVM  | ○             | 2  | 3 to 36           | 4.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +105                | MSOP8        |
| BA3472YF-LB | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP8         |
| BA3474F     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP14        |
| BA3474FV    | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B14     |
| BA3474FVJ   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | TSSOP-B14J   |
| BA3474RFV   | ○             | 4  | 3 to 36           | 8.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +105                | SSOP-B14     |
| BU7461G     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP8         |
| BU7461SG    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP5        |
| BU7462F     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP8         |
| BU7462FVM   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | MSOP8        |
| BU7462NUX   | —             | 2  | 1.7 to 5.5        | 0.3                 | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> - 1.2 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.0              | 1.0                          | -40 to +85                 | VSON008X2030 |
| BU7462SF    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP8         |
| BU7462SFVM  | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | MSOP8        |
| BU7462SNUX  | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | VSON008X2030 |
| BU7464F     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP14        |
| BU7464SF    | ○             | 4  | 1.7 to 5.5        | 0.6                 | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> - 1.2 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 95               | 60        | 80        | 1.0              | 1.0                          | -40 to +85                 | SOP14        |
| BU7481G     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP5        |
| BU7481SG    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP5        |
| BU7485G     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP5        |
| BU7485SG    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP5        |
| BU7486F     | —             | 2  | 3.0 to 5.5        | 3.0                 | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> - 1.4 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 105              | 60        | 80        | 10               | 10.0                         | -40 to +85                 | SOP8         |
| BU7486FV    | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B8      |
| BU7486FVM   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | MSOP8        |
| BU7486SF    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP8         |
| BU7486SFV   | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B8      |
| BU7486SFVM  | ○             | 4  | 3.0 to 5.5        | 6.0                 | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> - 1.4 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 105              | 60        | 80        | 10               | 10.0                         | -40 to +105                | MSOP8        |
| BU7487F     | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP14        |
| BU7487FV    | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B14     |
| BU7487SF    | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SOP14        |
| BU7487SFV   | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B14     |
| BU7465HFV   | —             | 1  | 1.7 to 5.5        | 0.12                | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> - 1.2 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1 | 100              | 60        | 80        | 1.0              | 1.2                          | -40 to +85                 | HVSOF5       |
| BU7465SHFV  | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | HVSOF5       |
| BU7495HFV   | —             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | HVSOF5       |
| BU7495SHFV  | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | HVSOF5       |
| BU7495SHFV  | ○             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | HVSOF5       |

## 车载用接地检测运算放大器

| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)                   | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package  | AEC-Q100 |
|--------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|------------------------------------------|----------------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|----------|----------|
| BA3472YF-C   | ●             | 2  | 3 to 36           | 4.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +125                | SOP8     | YES      |
| BA3472YFV-C  | ●             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | SSOP-B8  | YES      |
| BA3472YFVM-C | ●             |    |                   |                     |                          |                        |                    |                                          |                                              |                  |           |           |                  |                              |                            | MSOP8    | YES      |
| BA3474YFV-C  | ●             | 4  | 3 to 36           | 8.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +125                | SSOP-B14 | YES      |
| BA3472WFV-C  | ●             | 2  | 3 to 36           | 4.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +125                | SSOP-B8  | YES      |
| BA3474WFV-C  | ●             | 4  | 3 to 36           | 8.0                 | 1.0                      | 100                    | 30                 | V <sub>EE</sub> to V <sub>CC</sub> - 2.0 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -1.0 | 100              | 97        | 97        | 10               | 4.0                          | -40 to +125                | SSOP-B14 | YES      |

产品等级：—…标准 ○…高级 ●…车载等级

## 低消耗电流

| 输入输出全振幅运算放大器 |               |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              |                            |              |
|--------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|------------------------------------|------------------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|--------------|
| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(μA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)             | Output Voltage Range(V)                        | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package      |
| BU7241G      | —             | 1  | 1.8 to 5.5        | 70                  | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.4              | 0.9                          | -40 to +85                 | SSOP5        |
| BU7241SG     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SSOP5        |
| BU7242F      | —             | 2  | 1.8 to 5.5        | 180                 | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.4              | 0.9                          | -40 to +85                 | SOP8         |
| BU7242FVM    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | MSOP8        |
| BU7242NUX    | —             | 2  | 1.8 to 5.5        | 180                 | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.4              | 0.9                          | -40 to +85                 | VSON008X2030 |
| BU7242SF     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SOP8         |
| BU7242SFVM   | ○             | 2  | 1.8 to 5.5        | 180                 | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.4              | 0.9                          | -40 to +105                | MSOP8        |
| BU7242SNUX   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | VSON008X2030 |
| BU7244F      | —             | 4  | 1.8 to 5.5        | 360                 | 1.0                      | 0.001                  | 10                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.4              | 0.9                          | -40 to +85                 | SOP14        |
| BU7244FV     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B14     |
| BU7244SF     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SOP14        |
| BU7244SFV    | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SSOP-B14     |
| BU7271G      | —             | 1  | 1.8 to 5.5        | 8.6                 | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 100              | 60        | 80        | 0.05             | 0.09                         | -40 to +85                 | SSOP5        |
| BU7271SG     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SSOP5        |
| BU7265G      | —             | 1  | 1.8 to 5.5        | 0.35                | 1.0                      | 0.001                  | 2.4                | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.0024           | 0.004                        | -40 to +85                 | SSOP5        |
| BU7265SG     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SSOP5        |
| BU7266F      | —             | 2  | 1.8 to 5.5        | 0.7                 | 1.0                      | 0.001                  | 2.4                | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.0024           | 0.004                        | -40 to +85                 | SOP8         |
| BU7266FV     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B8      |
| BU7266FVM    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | MSOP8        |
| BU7266SF     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SOP8         |
| BU7266SFV    | ○             | 2  | 1.8 to 5.5        | 0.7                 | 1.0                      | 0.001                  | 2.4                | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.0024           | 0.004                        | -40 to +105                | SSOP-B8      |
| BU7266SFVM   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | MSOP8        |
| BU7275HFV    | —             | 1  | 1.8 to 5.5        | 40                  | 1.0                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.3              | 0.6                          | -40 to +85                 | HVSOF5       |
| BU7275SHFV   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | HVSOF5       |
| BU7205HFV    | —             | 1  | 1.8 to 5.5        | 0.4                 | 1.0                      | 0.001                  | 1.2                | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.0025           | 0.0025                       | -40 to +85                 | HVSOF5       |
| BU7205SHFV   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | HVSOF5       |
| BU7245HFV    | —             | 1  | 1.8 to 5.5        | 5                   | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.035            | 0.09                         | -40 to +85                 | HVSOF5       |
| BU7245SHFV   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | HVSOF5       |
| BD7541G      | —             | 1  | 5 to 14.5         | 180                 | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.3              | 0.6                          | -40 to +85                 | SSOP5        |
| BD7541SG     | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | SSOP5        |
| BD7542F      | —             | 2  | 5 to 14.5         | 400                 | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.3              | 0.6                          | -40 to +85                 | SOP8         |
| BD7542FVM    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | MSOP8        |
| BD7542SF     | ○             | 2  | 5 to 14.5         | 400                 | 1.0                      | 0.001                  | 4                  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> -0.1   | 95               | 60        | 80        | 0.3              | 0.6                          | -40 to +105                | SOP8         |
| BD7542SFVM   | ○             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +105                | MSOP8        |
| BD12730G     | —             | 1  | 1.8 to 5.5        | 320                 | 1.0                      | 50                     | 5                  | GND to V <sub>+</sub>              | 0.1 to V <sub>i</sub> -0.1                     | 85               | 70        | 85        | 0.4              | 1.0                          | -40 to +85                 | SSOP5        |
| BD12732F     | —             | 2  | 1.8 to 5.5        | 580                 | 1.0                      | 50                     | 5                  | GND to V <sub>+</sub>              | 0.1 to V <sub>i</sub> -0.1                     | 85               | 70        | 85        | 0.4              | 1.0                          | -40 to +85                 | SOP8         |
| BD12732FJ    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SOP-J8       |
| BD12732FV    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B8      |
| BD12732FVT   | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B8     |
| BD12732FVM   | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | MSOP8        |
| BD12732FVJ   | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B8J    |
| BD12734F     | —             | 4  | 1.8 to 5.5        | 1200                | 1.0                      | 50                     | 5                  | GND to V <sub>+</sub>              | 0.1 to V <sub>i</sub> -0.1                     | 85               | 70        | 85        | 0.4              | 1.0                          | -40 to +85                 | SOP14        |
| BD12734FJ    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SOP-J14      |
| BD12734FV    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B14     |
| BD12734FVJ   | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B14J   |
| LMR931G      | —             | 1  | 1.8 to 5.0        | 80                  | 1.0                      | 5                      | 28                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.04 to V <sub>DD</sub> -0.05 | 100              | 94        | 85        | 0.4              | 1.4                          | -40 to +85                 | SSOP5        |
| LMR932F      | —             | 2  | 1.8 to 5.0        | 135                 | 1.0                      | 5                      | 28                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.04 to V <sub>DD</sub> -0.05 | 100              | 94        | 85        | 0.4              | 1.4                          | -40 to +85                 | SOP8         |
| LMR932FJ     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SOP-J8       |
| LMR932FV     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B8      |
| LMR932FVT    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B8     |
| LMR932FVM    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | MSOP8        |
| LMR932FVJ    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B8J    |
| LMR934F      | —             | 4  | 1.8 to 5.0        | 250                 | 1.0                      | 5                      | 28                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.04 to V <sub>DD</sub> -0.05 | 100              | 94        | 85        | 0.4              | 1.4                          | -40 to +85                 | SOP14        |
| LMR934FJ     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SOP-J14      |
| LMR934FV     | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | SSOP-B14     |
| LMR934FVJ    | —             |    |                   |                     |                          |                        |                    |                                    |                                                |                  |           |           |                  |                              | -40 to +85                 | TSSOP-B14J   |
| LMR981G      | —             | 1  | 1.8 to 5.0        | 80                  | 1.0                      | 5                      | 28                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.04 to V <sub>DD</sub> -0.05 | 100              | 94        | 85        | 0.4              | 1.4                          | -40 to +85                 | SSOP6        |
| LMR982FVM    | —             | 2  | 1.8 to 5.0        | 135                 | 1.0                      | 5                      | 28                 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.04 to V <sub>DD</sub> -0.05 | 100              | 94        | 85        | 0.4              | 1.4                          | -40 to +85                 | MSOP10       |



IC

## 放大器 / 比较器

▶ 运算放大器 ▶▶ 低消耗电流

## 低消耗电流

A

放大器 / 比较器

## 接地检测运算放大器

| Part No.   | Product Grade | CH | Supply Voltage(V) | Circuit Current(μA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V) | Output Voltage Range(V) | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package      |
|------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|------------------------|-------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|--------------|
| BU7441G    | —             | 1  | 1.7 to 5.5        | 50                  | 1.0                      | 0.001                  | 6                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.3              | 0.6                          | —40 to +85                 | SSOP5        |
| BU7441SG   | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | SSOP5        |
| BU7442F    | —             | 2  | 1.7 to 5.5        | 100                 | 1.0                      | 0.001                  | 6                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.3              | 0.6                          | —40 to +85                 | SOP8         |
| BU7442FVM  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | MSOP8                      |              |
| BU7442NUX  | —             | 2  | 1.7 to 5.5        | 100                 | 1.0                      | 0.001                  | 6                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.3              | 0.6                          | —40 to +85                 | VSON008X2030 |
| BU7442SF   | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP8                       |              |
| BU7442SFVM | ○             | 2  | 1.7 to 5.5        | 100                 | 1.0                      | 0.001                  | 6                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.3              | 0.6                          | —40 to +105                | MSOP8        |
| BU7442SNUX | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | VSON008X2030               |              |
| BU7444F    | —             | 4  | 1.7 to 5.5        | 200                 | 1.0                      | 0.001                  | 6                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.3              | 0.6                          | —40 to +85                 | SOP14        |
| BU7444SF   | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | SOP14        |
| BU7421G    | —             | 1  | 1.7 to 5.5        | 8.5                 | 1.0                      | 0.001                  | 4                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 100              | 60        | 80        | 0.05             | 0.09                         | —40 to +85                 | SSOP5        |
| BU7421SG   | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | SSOP5        |
| BU7411G    | —             | 1  | 1.6 to 5.5        | 0.35                | 1.0                      | 0.001                  | 2.4                | Vss to VDD—1.0         | Vss+0.1 to VDD—0.1      | 95               | 60        | 80        | 0.0024           | 0.004                        | —40 to +85                 | SSOP5        |
| BU7411SG   | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | SSOP5        |
| BU7445HFV  | —             | 1  | 1.7 to 5.5        | 40                  | 1.0                      | 0.001                  | 8                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 100              | 60        | 80        | 0.25             | 0.4                          | —40 to +85                 | HVSOF5       |
| BU7445SHFV | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | HVSOF5       |
| BU7475HFV  | —             | 1  | 1.7 to 5.5        | 9                   | 1.0                      | 0.001                  | 7                  | Vss to VDD—1.2         | Vss+0.1 to VDD—0.1      | 100              | 60        | 80        | 0.05             | 0.1                          | —40 to +85                 | HVSOF5       |
| BU7475SHFV | ○             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | —40 to +105                | HVSOF5       |
| BD1321G    | —             | 1  | 2.7 to 5.5        | 130                 | 0.1                      | 15                     | 70                 | VEE to VCC—0.8         | VEE+0.08 to VCC—0.04    | 110              | 90        | 90        | 1.0              | 3.0                          | —40 to +85                 | SSOP5        |
| LMR321G    | —             | 1  | 2.7 to 5.5        | 130                 | 0.1                      | 15                     | 70                 | VEE to VCC—0.8         | VEE+0.08 to VCC—0.04    | 110              | 90        | 90        | 1.0              | 3.0                          | —40 to +85                 | SSOP5        |
| LMR358F    | —             | 2  | 2.7 to 5.5        | 210                 | 0.1                      | 15                     | 70                 | VEE to VCC—0.8         | VEE+0.08 to VCC—0.04    | 110              | 90        | 90        | 1.0              | 3.0                          | —40 to +85                 | SOP8         |
| LMR358FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| LMR358FV   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B8                    |              |
| LMR358FVT  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| LMR358FVM  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | MSOP8                      |              |
| LMR358FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| LMR324F    | —             | 4  | 2.7 to 5.5        | 410                 | 1.0                      | 15                     | 70                 | VEE to VCC—0.8         | VEE+0.08 to VCC—0.04    | 110              | 90        | 90        | 1.0              | 3.0                          | —40 to +85                 | SOP14        |
| LMR324FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J14                    |              |
| LMR324FV   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B14                   |              |
| LMR324FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B14J                 |              |
| LMR821G    | —             | 1  | 2.5 to 5.5        | 280                 | 1.0                      | 30                     | 16                 | Vss to VDD—0.9         | Vss+0.12 to VDD—0.1     | 100              | 85        | 85        | 2.0              | 5.0                          | —40 to +85                 | SSOP5        |
| LMR822F    | —             | 2  | 2.5 to 5.5        | 560                 | 1.0                      | 30                     | 16                 | Vss to VDD—0.9         | Vss+0.12 to VDD—0.1     | 100              | 85        | 85        | 2.0              | 5.0                          | —40 to +85                 | SOP8         |
| LMR822FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| LMR822FV   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B8                    |              |
| LMR822FVT  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| LMR822FVM  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | MSOP8                      |              |
| LMR822FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| LMR824F    | —             | 4  | 2.5 to 5.5        | 1120                | 1.0                      | 30                     | 16                 | Vss to VDD—0.9         | Vss+0.12 to VDD—0.1     | 100              | 85        | 85        | 2.0              | 5.0                          | —40 to +85                 | SOP14        |
| TLR341G    | —             | 1  | 1.8 to 5.5        | 70                  | 0.3                      | 0.001                  | 8                  | Vss to VDD—1.0         | Vss+0.055 to VDD—0.05   | 100              | 90        | 95        | 1.2              | 2.2                          | —40 to +85                 | SSOP6        |
| TLR342F    | —             | 2  | 1.8 to 5.5        | 150                 | 0.3                      | 0.001                  | 8                  | Vss to VDD—1.0         | Vss+0.055 to VDD—0.05   | 100              | 85        | 95        | 1.0              | 1.2                          | —40 to +85                 | SOP8         |
| TLR342FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| TLR342FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| TLR342FVT  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| TLR344F    | —             | 4  | 1.8 to 5.5        | 300                 | 0.3                      | 0.001                  | 8                  | Vss to VDD—1.0         | Vss+0.055 to VDD—0.05   | 100              | 85        | 95        | 1.0              | 1.2                          | —40 to +85                 | SOP14        |
| TLR344FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J14                    |              |
| TLR344FVJ  | —             | 4  | 1.8 to 5.5        | 300                 | 0.3                      | 0.001                  | 8                  | Vss to VDD—1.0         | Vss+0.055 to VDD—0.05   | 100              | 85        | 95        | 1.0              | 1.2                          | —40 to +85                 | TSSOP-B14J   |
| LMR341G    | —             | 1  | 2.7 to 5.5        | 100                 | 0.25                     | 0.001                  | 24                 | Vss to VDD—1.0         | Vss+0.06 to VDD—0.06    | 103              | 80        | 85        | 1.0              | 2.0                          | —40 to +85                 | SSOP5        |
| LMR342F    | —             | 2  | 2.7 to 5.5        | 200                 | 0.25                     | 0.001                  | 24                 | Vss to VDD—1.0         | Vss+0.06 to VDD—0.06    | 103              | 80        | 85        | 1.0              | 2.0                          | —40 to +85                 | SOP8         |
| LMR342FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| LMR342FV   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B8                    |              |
| LMR342FVT  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| LMR342FVM  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | MSOP8                      |              |
| LMR342FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| LMR344F    | —             | 4  | 2.7 to 5.5        | 400                 | 0.25                     | 0.001                  | 24                 | Vss to VDD—1.0         | Vss+0.06 to VDD—0.06    | 103              | 80        | 85        | 1.0              | 2.0                          | —40 to +85                 | SOP14        |
| LMR344FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J14                    |              |
| LMR344FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B14J                 |              |
| LM2904F    | —             | 2  | 3.0 to 32.0       | 600                 | 1                        | 20                     | 30                 | VEE to VCC—1.5         | VEE+0.01 to VCC—1.5     | 100              | 80        | 100       | 0.3              | 0.8                          | —40 to +125                | SOP8         |
| LM2904FJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| LM2904FV   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B8                    |              |
| LM2904FVT  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| LM2904FVJ  | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| LM324F     | —             | 4  | 3.0 to 32.0       | 1000                | 1                        | 20                     | 30                 | VEE to VCC—1.5         | VEE+0.01 to VCC—1.5     | 100              | 80        | 100       | 0.3              | 0.8                          | —40 to +85                 | SOP14        |
| LM358F     | —             | 2  | 3.0 to 32.0       | 600                 | 1                        | 20                     | 30                 | VEE to VCC—1.5         | VEE+0.01 to VCC—1.5     | 100              | 80        | 100       | 0.3              | 0.8                          | —40 to +85                 | SOP8         |
| LM358FJ    | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SOP-J8                     |              |
| LM358FV    | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | SSOP-B8                    |              |
| LM358FVT   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8                   |              |
| LM358FVJ   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | TSSOP-B8J                  |              |
| LM358FVM   | —             |    |                   |                     |                          |                        |                    |                        |                         |                  |           |           |                  |                              | MSOP8                      |              |

## 低噪声

| 输出全振幅运算放大器   |               |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            |           |     |
|--------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|-----------|-----|
| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Input Referred Noise Voltage <sup>(1)</sup> (μVrms) | Input Voltage Range(V)                       | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package   |     |
| BA4510F      | —             | 2  | ±1 to ±3.5        | 5.0                 | 1.0                      | 80                     | 0.7                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +0.1 to V <sub>CC</sub> -0.1 | 90               | 80        | 80        | 5.0              | 10.0                         | -20 to +75                 | SOP8      |     |
| BA4510FV     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4510FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4510FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA2107G      | —             | 1  | ±1 to ±7          | 1.8                 | 1.0                      | 150                    | 0.9                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -0.3 | 80               | 74        | 80        | 4.0              | 12.0                         | -40 to +85                 | SSOP5     |     |
| BA2115F      | —             | 2  | ±1 to ±7          | 3.5                 | 1.0                      | 150                    | 0.9                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +0.3 to V <sub>CC</sub> -0.3 | 80               | 74        | 80        | 4.0              | 12.0                         | -40 to +85                 | SOP8      |     |
| BA2115FJ     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA2115FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA2115FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| 车载用运算放大器     |               |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            |           |     |
| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Input Referred Noise Voltage <sup>(1)</sup> (μVrms) | Input Voltage Range(V)                       | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package   |     |
| BA4558YF-M   | ●             | 2  | ±4 to ±15         | 3.0                 | 0.5                      | 60                     | 1.8                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 1.0              | 2.0                          | -40 to +105                | SOP8      |     |
| BA4558YFV-M  | ●             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4558YFVM-M | ●             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4560YF-M   | ●             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP8      |     |
| BA4560YFV-M  | ●             | 2  | ±4 to ±15         | 3.0                 | 0.5                      | 50                     | 1.0                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 4.0              | 4.0                          | -40 to +105                | SSOP-B8   |     |
| BA4560YFVM-M | ●             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4580YF-M   | ●             | 2  | ±2 to ±16         | 6.0                 | 0.3                      | 100                    | 0.8                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 110       | 110       | 5.0              | 10.0                         | -40 to +105                | SOP8      |     |
| BA4580YFVM-M | ●             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4584YFV-M  | ●             | 4  | ±2 to ±16         | 11.0                | 0.3                      | 100                    | 0.8                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 110       | 110       | 5.0              | 10.0                         | -40 to +105                | SSOP-B14  | YES |
| 双电源运算放大器     |               |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            |           |     |
| Part No.     | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Input Referred Noise Voltage <sup>(1)</sup> (μVrms) | Input Voltage Range(V)                       | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package   |     |
| BA4558F      | —             | 2  | ±4 to ±15         | 3.0                 | 0.5                      | 60                     | 1.8                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 1.0              | 2.0                          | -40 to +85                 | SOP8      |     |
| BA4558FJ     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA4558FV     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4558FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4558FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA4558RF     | ○             | 2  | ±4 to ±15         | 3.0                 | 0.5                      | 60                     | 1.8                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 1.0              | 2.0                          | -40 to +105                | SOP8      |     |
| BA4558RFJ    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA4558RFV    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4558RFVM   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4558RFVT   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA4560F      | —             | 2  | ±4 to ±15         | 4.0                 | 0.5                      | 50                     | 1.0                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 4.0              | 10.0                         | -40 to +85                 | SOP8      |     |
| BA4560FJ     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA4560FV     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4560FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4560FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA4560RF     | ○             | 2  | ±4 to ±15         | 3.0                 | 0.5                      | 50                     | 1.0                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 4.0              | 4.0                          | -40 to +105                | SOP8      |     |
| BA4560RFJ    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA4560RFV    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| BA4560RFVM   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4560RFVT   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA4564RFV    | ○             | 4  | ±4 to ±15         | 6.0                 | 0.5                      | 50                     | 1.0                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 90        | 90        | 4.0              | 4.0                          | -40 to +105                | SSOP-B14  |     |
| BA15218F     | —             | 2  | ±2 to ±16         | 5.0                 | 0.5                      | 50                     | 1.0                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +2.0 to V <sub>CC</sub> -2.0 | 110              | 90        | 90        | 3.0              | 10.0                         | -40 to +85                 | SOP8      |     |
| BA14741F     | —             | 4  | ±2 to ±18         | 3.0                 | 1.0                      | 60                     | 2.0                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +2.5 to V <sub>CC</sub> -2.5 | 100              | 100       | 100       | 1.0              | 2.0                          | -40 to +85                 | SOP14     |     |
| BA14741FJ    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J14   |     |
| BA15532F     | —             | 2  | ±3 to ±20         | 8.0                 | 0.5                      | 200                    | 1.5                                                 | V <sub>EE</sub> +2.0 to V <sub>CC</sub> -2.0 | V <sub>EE</sub> +2.0 to V <sub>CC</sub> -2.0 | 94               | 100       | 100       | 8.0              | 20.0                         | -20 to +75                 | SOP8      |     |
| BA4580RF     | ○             | 2  | ±2 to ±16         | 6.0                 | 0.3                      | 100                    | 0.8                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 110       | 110       | 5.0              | 5.0                          | -40 to +105                | SOP8      |     |
| BA4580RFJ    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| BA4580RFVM   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| BA4580RFVT   | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| BA4584FV     | —             | 4  | ±2 to ±16         | 12.0                | 0.3                      | 100                    | 0.8                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 110       | 110       | 5.0              | 5.0                          | -40 to +85                 | SSOP-B14  |     |
| BA4584RF     | ○             | 4  | ±2 to ±9.5        | 11.0                | 0.3                      | 100                    | 0.8                                                 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 110       | 110       | 5.0              | 5.0                          | -40 to +105                | SOP14     |     |
| BA4584RFV    | ○             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B14  |     |
| LM4559F      | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP8      |     |
| LM4559FJ     | —             | 2  | ±4 to ±18         | 3.3                 | 0.5                      | 40                     | 0.7                                                 | V <sub>EE</sub> +2.0 to V <sub>CC</sub> -2.0 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> -1.5 | 110              | 100       | 100       | 3.5              | 4.0                          | -40 to +85                 | SOP-J8    |     |
| LM4559FV     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| LM4559FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| LM4559FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| LM4559FVJ    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8J |     |
| LM4565F      | —             | 2  | ±4 to ±18         | 4.5                 | 0.5                      | 70                     | 0.6                                                 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> -1.0 | 100              | 100       | 100       | 5.0              | 10.0                         | -40 to +85                 | SOP8      |     |
| LM4565FJ     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SOP-J8    |     |
| LM4565FV     | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | SSOP-B8   |     |
| LM4565FVT    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8  |     |
| LM4565FVM    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | MSOP8     |     |
| LM4565FVJ    | —             |    |                   |                     |                          |                        |                                                     |                                              |                                              |                  |           |           |                  |                              |                            | TSSOP-B8J |     |



IC

## 放大器 / 比较器

运算放大器 ▶▶ 低偏置电压  
比较器 ▶▶ 通用

## 低偏置电压

A

放大器 / 比较器

## 接地检测运算放大器

| Part No. | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current(mA) | Input Voltage Range(V)                  | Output Voltage Range(V)                      | Voltage Gain(dB) | CMRR (dB) | PSRR (dB) | Slew Rate (V/μs) | Gain Bandwidth Product (MHz) | Operating Temperature (°C) | Package |
|----------|---------------|----|-------------------|---------------------|--------------------------|------------------------|--------------------|-----------------------------------------|----------------------------------------------|------------------|-----------|-----------|------------------|------------------------------|----------------------------|---------|
| BU5281G  | —             | 1  | 1.8 to 5.5        | 0.75                | 0.1                      | 0.001                  | 8                  | V <sub>SS</sub> to V <sub>DD</sub> —1.2 | V <sub>SS</sub> +0.1 to V <sub>DD</sub> —0.1 | 110              | 60        | 80        | 2.0              | 3.0                          | —40 to +85                 | SSOP5   |
| BU5281SG | ○             |    |                   |                     |                          |                        |                    |                                         |                                              |                  |           |           |                  |                              |                            | SSOP5   |
| BA2904WF | ○             | 2  | 3 to 36           | 0.5                 | 0.5                      | 20                     | 30                 | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | V <sub>EE</sub> to V <sub>CC</sub> —1.5      | 100              | 80        | 100       | 0.2              | 0.5                          | —40 to +125                | SOP8    |
| BA2904WV | ○             |    |                   |                     |                          |                        |                    |                                         |                                              |                  |           |           |                  |                              |                            | SSOP-B8 |

## 双电源运算放大器

|            |   |   |             |     |     |    |    |                                              |                                              |     |    |    |     |     |             |          |
|------------|---|---|-------------|-----|-----|----|----|----------------------------------------------|----------------------------------------------|-----|----|----|-----|-----|-------------|----------|
| BA4564WV   | ○ | 4 | ± 4 to ± 15 | 6.0 | 0.5 | 50 | 25 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> —1.0 | V <sub>EE</sub> +1.0 to V <sub>CC</sub> —1.0 | 100 | 90 | 90 | 4.0 | 4.0 | —40 to +105 | SSOP-B14 |
| BA8522RF   | ○ |   |             |     |     |    |    |                                              |                                              |     |    |    |     |     |             | SOP8     |
| BA8522RFV  | ○ | 2 | ± 2 to ± 16 | 5.5 | 0.1 | 50 | 50 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> —1.5 | V <sub>EE</sub> +1.5 to V <sub>CC</sub> —1.5 | 110 | 90 | 90 | 3.0 | 6.0 | —40 to +105 | SSOP-B8  |
| BA8522RFVM | ○ |   |             |     |     |    |    |                                              |                                              |     |    |    |     |     |             | MSOP8    |

## 输入输出全振幅运算放大器

|           |   |   |            |      |     |       |    |                                    |                                              |     |    |     |     |     |            |       |
|-----------|---|---|------------|------|-----|-------|----|------------------------------------|----------------------------------------------|-----|----|-----|-----|-----|------------|-------|
| BD5291FVE | — | 1 | 1.7 to 5.5 | 0.65 | 0.1 | 0.001 | 6  | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> —0.1 | 110 | 90 | 90  | 2.5 | 3.2 | —40 to +85 | VSOF5 |
| BD5291G   | — |   |            |      |     |       |    |                                    |                                              |     |    |     |     |     |            | SSOP5 |
| LM7101G   | — | 1 | 1.8 to 5.0 | 1.05 | 0.1 | 0.001 | 80 | V <sub>SS</sub> to V <sub>DD</sub> | V <sub>SS</sub> +0.1 to V <sub>DD</sub> —0.1 | 100 | 90 | 100 | 1.2 | 1.5 | —40 to +85 | SSOP5 |

产品等级：—…标准 ○…高级

## 比较器

## 通用

## 集电极开路比较器

| Part No.    | Product Grade | CH | Supply Voltage (V) | Circuit Current (mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current (mA) | Input Voltage Range(V)                  | Voltage Gain (dB) | Response Time (μs) | Operating Temperature (°C) | Package  |
|-------------|---------------|----|--------------------|----------------------|--------------------------|------------------------|---------------------|-----------------------------------------|-------------------|--------------------|----------------------------|----------|
| BA8391G     | —             | 1  | 2 to 36            | 0.3                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +85                 | SSOP5    |
| BA2903F     | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP8     |
| BA2903FV    | ○             | 2  | 2 to 36            | 0.6                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SSOP-B8  |
| BA2903FVM   | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | MSOP8    |
| BA2903YF-LB | ○             | 2  | 2 to 36            | 0.6                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP8     |
| BA2903SF    | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP8     |
| BA2903SFV   | ○             | 2  | 2 to 36            | 0.6                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +105                | SSOP-B8  |
| BA2903SFVM  | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | MSOP8    |
| BA2901F     | ○             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP14    |
| BA2901FV    | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SSOP-B14 |
| BA2901YF-LB | ○             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP14    |
| BA2901SF    | ○             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP14    |
| BA2901SFV   | ○             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +105                | SSOP-B14 |
| BA10393F    | —             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SSOP-B14 |
| BA10393FV   | —             | 4  | 3 to 36            | 0.8                  | 1                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 106               | 1.3                | —40 to +85                 | SOP8     |
| BA10393F    | —             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP14    |
| BA10393FV   | —             | 4  | 3 to 36            | 0.8                  | 1                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 106               | 1.3                | —40 to +85                 | SSOP-B14 |
| LM393F      | —             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SSOP-B14 |
| LM393F      | —             | 2  | 3 to 32            | 0.6                  | 1                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 120               | 1                  | —40 to +85                 | SOP8     |

## 通用标准系列集电极开路比较器

| Family  | Package | Product Grade | Package     |          |          |              |          | CH | Supply Voltage (V) | Operating Temperature (°C) | ESD (HBM) | Packing Specification |
|---------|---------|---------------|-------------|----------|----------|--------------|----------|----|--------------------|----------------------------|-----------|-----------------------|
|         |         |               | SO Package8 | TSSOP8   | Mini SO8 | SO Package14 | TSSOP14  |    |                    |                            |           |                       |
| LM393x  | —       | —             | LM393DT     | LM393PT  | LM393ST  | —            | —        | 2  | 2 to 36            | 0 to +70                   | 2kV       | Reel                  |
|         |         |               | LM393WDT    | LM393WPT | —        | —            | —        |    |                    |                            | 4kV       | Reel                  |
| LM2903x | —       | —             | LM2903DT    | LM2903PT | —        | —            | —        | 2  | 2 to 36            | —40 to +125                | 2kV       | Reel                  |
| LM339x  | —       | —             | —           | —        | —        | LM339DT      | LM339PT  | 4  | 2 to 36            | 0 to +70                   | 2kV       | Reel                  |
| LM2901x | —       | —             | —           | —        | —        | LM2901DT     | LM2901PT | 4  | 2 to 36            | —40 to +125                | 2kV       | Reel                  |

## 车载用集电极开路比较器

| Part No.     | Product Grade | CH | Supply Voltage (V) | Circuit Current (mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current (mA) | Input Voltage Range(V)                  | Voltage Gain (dB) | Response Time (μs) | Operating Temperature (°C) | Package  | AEC-Q100 |
|--------------|---------------|----|--------------------|----------------------|--------------------------|------------------------|---------------------|-----------------------------------------|-------------------|--------------------|----------------------------|----------|----------|
| BA2903YF-C   | ●             | 2  | 2 to 36            | 0.6                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP8     | YES      |
| BA2903YFV-C  | ●             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SSOP-B8  | YES      |
| BA2903YFVM-C | ●             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | MSOP8    | YES      |
| BA2901YF-C   | ●             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP14    | YES      |
| BA2901YFV-C  | ●             | 2  | 2 to 36            | 0.6                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SSOP-B14 | YES      |
| BA2903YF-M   | ●             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SOP8     | YES      |
| BA2903YFV-M  | ●             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SSOP-B8  | YES      |
| BA2903YFVM-M | ●             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | MSOP8    | YES      |
| BA2901YF-M   | ●             | 4  | 2 to 36            | 0.8                  | 2                        | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP14    | YES      |
| BA2901YFV-M  | ●             |    |                    |                      |                          |                        |                     |                                         |                   |                    |                            | SSOP-B14 | YES      |

产品等级：—…标准 ○…高级 ●…车载等级

## 高速

| 推挽输出比较器    |               |    |                   |                     |                          |                        |                     |                        |                   |                    |                            |         |
|------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|---------------------|------------------------|-------------------|--------------------|----------------------------|---------|
| Part No.   | Product Grade | CH | Supply Voltage(V) | Circuit Current(μA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current (mA) | Input Voltage Range(V) | Voltage Gain (dB) | Response Time (μs) | Operating Temperature (°C) | Package |
| BU7251G    | —             | 1  | 1.8 to 5.5        | 15                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 0.55               | —40 to +85                 | SSOP5   |
| BU7251SG   | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | SSOP5   |
| BU7252F    | —             | 2  | 1.8 to 5.5        | 35                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 0.55               | —40 to +85                 | SOP8    |
| BU7252FVM  | —             |    |                   |                     |                          |                        |                     |                        |                   |                    | MSOP8                      |         |
| BU7252SF   | ○             | 2  | 1.8 to 5.5        | 35                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 0.55               | —40 to +105                | SOP8    |
| BU7252SFVM | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | MSOP8                      |         |
| BU5265HFV  | —             | 1  | 1.8 to 5.5        | 22                  | 1                        | 0.001                  | 3.5                 | Vss to VDD             | 90                | 0.5                | —40 to +85                 | HVSOF5  |
| BU5265SHFV | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | HVSOF5  |

| 漏极开路比较器  |   |   |            |    |   |       |   |            |    |      |             |       |
|----------|---|---|------------|----|---|-------|---|------------|----|------|-------------|-------|
| BU7250G  | — | 1 | 1.8 to 5.5 | 15 | 1 | 0.001 | 6 | Vss to VDD | 90 | 0.75 | —40 to +85  | SSOP5 |
| BU7250SG | ○ |   |            |    |   |       |   |            |    |      | —40 to +105 | SSOP5 |
| BU7253F  | — | 2 | 1.8 to 5.5 | 35 | 1 | 0.001 | 6 | Vss to VDD | 90 | 0.75 | —40 to +85  | SOP8  |
| BU7253SF | ○ |   |            |    |   |       |   |            |    |      | —40 to +105 | SOP8  |

产品等级：—…标准 ○…高级

## 低消耗电流

| 推挽输出比较器    |               |    |                   |                     |                          |                        |                     |                        |                   |                    |                            |         |
|------------|---------------|----|-------------------|---------------------|--------------------------|------------------------|---------------------|------------------------|-------------------|--------------------|----------------------------|---------|
| Part No.   | Product Grade | CH | Supply Voltage(V) | Circuit Current(μA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current (mA) | Input Voltage Range(V) | Voltage Gain (dB) | Response Time (μs) | Operating Temperature (°C) | Package |
| BU7231G    | —             | 1  | 1.8 to 5.5        | 5                   | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 1.7                | —40 to +85                 | SSOP5   |
| BU7231SG   | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | SSOP5   |
| BU7232F    | —             | 2  | 1.8 to 5.5        | 10                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 1.7                | —40 to +85                 | SOP8    |
| BU7232FVM  | —             |    |                   |                     |                          |                        |                     |                        |                   |                    | MSOP8                      |         |
| BU7232SF   | ○             | 2  | 1.8 to 5.5        | 10                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 1.7                | —40 to +105                | SOP8    |
| BU7232SFVM | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | MSOP8                      |         |
| BU5255HFV  | —             | 1  | 1.8 to 5.5        | 6.5                 | 1                        | 0.001                  | 3.5                 | Vss to VDD             | 90                | 1.6                | —40 to +85                 | HVSOF5  |
| BU5255SHFV | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | HVSOF5  |
| 漏极开路比较器    |               |    |                   |                     |                          |                        |                     |                        |                   |                    |                            |         |
| BU7230G    | —             | 1  | 1.8 to 5.5        | 5                   | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 1.8                | —40 to +85                 | SSOP5   |
| BU7230SG   | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | SSOP5   |
| BU7233F    | —             | 2  | 1.8 to 5.5        | 10                  | 1                        | 0.001                  | 6                   | Vss to VDD             | 90                | 1.8                | —40 to +85                 | SOP8    |
| BU7233SF   | ○             |    |                   |                     |                          |                        |                     |                        |                   |                    | —40 to +105                | SOP8    |
| BU7233YF-C | ○             | 2  | 1.8 to 5.5        | 10                  | 1                        | 0.001                  | 7                   | Vss to VDD             | 100               | 1.8                | —40 to +125                | SOP8    |

产品等级：—…标准 ○…高级

## 低偏置电压

| 集电极开路比较器  |               |    |                   |                     |                          |                        |                     |                                         |                   |                    |                            |         |
|-----------|---------------|----|-------------------|---------------------|--------------------------|------------------------|---------------------|-----------------------------------------|-------------------|--------------------|----------------------------|---------|
| Part No.  | Product Grade | CH | Supply Voltage(V) | Circuit Current(mA) | Input Offset Voltage(mV) | Input Bias Current(nA) | Output Current (mA) | Input Voltage Range(V)                  | Voltage Gain (dB) | Response Time (μs) | Operating Temperature (°C) | Package |
| BA2903WF  | ○             | 2  | 2 to 36           | 0.6                 | 0.5                      | 50                     | 16                  | V <sub>EE</sub> to V <sub>CC</sub> —1.5 | 100               | 1.3                | —40 to +125                | SOP8    |
| BA2903WFV | ○             |    |                   |                     |                          |                        |                     |                                         |                   |                    |                            | SSOP-B8 |

产品等级：—…标准 ○…高级

A

放大器 / 比较器



# 晶体管阵列

## 达林顿晶体管阵列

A  
放大器 / 比较器

| 集电极开路     |               |                              |                               |                     |                       |                       |                    |                         |                      |                                |         |
|-----------|---------------|------------------------------|-------------------------------|---------------------|-----------------------|-----------------------|--------------------|-------------------------|----------------------|--------------------------------|---------|
| Part No.  | Number of bit | Output Withstand Voltage (V) | Output Saturation Voltage (V) | Output Current (mA) | Input Resistance (kΩ) | Input/Output Relation | Input Active Level | Output Current Relation | Circuit Construction | Features                       | Package |
| BA12003B  | 7             | 60                           | 1.46*                         | 500                 | 2.7                   | Inverting type        | H                  | Sink                    | Darlington           | Built-in surge absorbing diode | DIP16   |
| BA12003BF | 7             | 60                           | 1.46*                         | 500                 | 2.7                   | Inverting type        | H                  | Sink                    | Darlington           | Built-in surge absorbing diode | SOP16   |
| BA12004B  | 7             | 60                           | 1.46*                         | 500                 | 10.5                  | Inverting type        | H                  | Sink                    | Darlington           | Built-in surge absorbing diode | DIP16   |
| BA12004BF | 7             | 60                           | 1.46*                         | 500                 | 10.5                  | Inverting type        | H                  | Sink                    | Darlington           | Built-in surge absorbing diode | SOP16   |

\* 输出电流=350mA