

## Precision, Dual, JFET Input Operational Amplifier

### FEATURES

- Low Input Offset Voltage
- Low Input Offset Voltage Drift
- Low Supply Current
- High Slew Rate
- Wide Bandwidth
- Low Noise
- Low Input Bias Current
- No Phase Reversal
- RF noise Immunity
- Guaranteed Temperature
- Operating Voltage
- Package

$V_{IO} = 400\mu\text{V}$  max.  
 $V_{IO} = 700\mu\text{V}$  max.  
 ( $T_a = -40^\circ\text{C}$  to  $+125^\circ\text{C}$ )  
 $\Delta V_{IO}/\Delta T = 5\mu\text{V}/^\circ\text{C}$  max.  
 ( $T_a = -40^\circ\text{C}$  to  $+125^\circ\text{C}$ )  
 $I_{CC} = 3\text{mA}$  max.  
 $SR = 20\text{V}/\mu\text{s}$  typ.  
 $f_t = 7\text{MHz}$  typ.  
 $e_n = 10\text{nV}/\sqrt{\text{Hz}}$   
 (at  $f = 1\text{kHz}$  typ.)  
 $I_B = 80\text{pA}$  max.  
 (at  $T_a = 25^\circ\text{C}$ )

$T_{opr} = -40^\circ\text{C}$  to  $+125^\circ\text{C}$   
 $V_{opr} = \pm 4.5\text{V}$  to  $\pm 16\text{V}$   
 MSOP8 (VSP8)  
 meet JEDEC MO-187-DA  
 SOP8 JEDEC 150 mil

### GENERAL DESCRIPTION

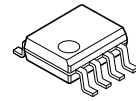
The NJM8512 is a dual high precision JFET input operational amplifier featuring low offset, low offset drift, low bias current, high slew rate, low noise and wide operating temperature range.

The precision performance, high speed and low noise make the NJM8512 especially suitable for filter and amplification of high speed and small signal in instruments, automated test equipment, sensors and other precision applications.

### PACKAGE OUTLINE



NJM8512AR  
 NJM8512BR  
 (MSOP8 (VSP8))



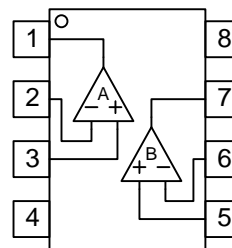
NJM8512AE  
 NJM8512BE  
 (SOP8)

### APPLICATIONS

- Current Sensor
- Photodiode Amplification
- Reference Voltage Circuit
- Automatic Test Equipment

### PIN CONFIGURATION

(Top View)

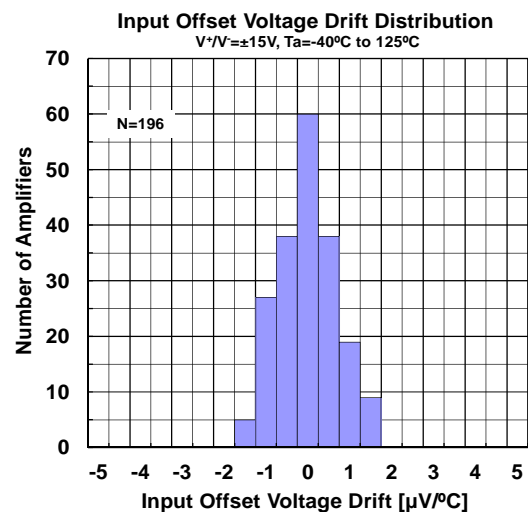
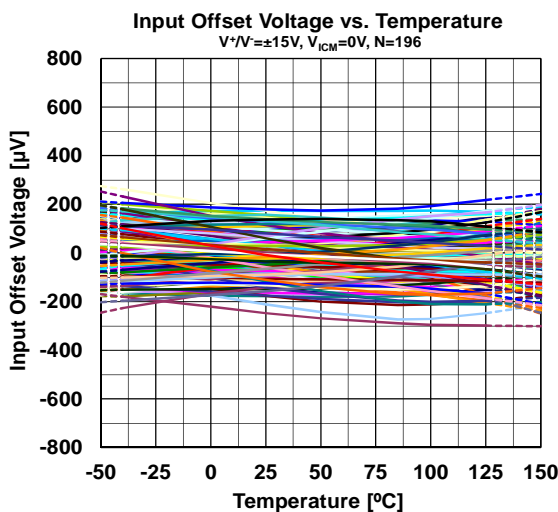


MSOP8(VSP8)  
 SOP8

#### PIN FUNCTION

- 1: OUTPUT A
- 2: -INPUT A
- 3: +INPUT A
- 4:  $V^-$
- 5: +INPUT B
- 6: -INPUT B
- 7: OUTPUT B
- 8:  $V^+$

### ELECTRICAL CHARACTERISTICS



# NJM8512

## ■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise noted.)

| PARAMETER                                 | SYMBOL    | RATING  | UNIT |
|---|-----------|---|------|
| Supply Voltage                            | $V^+V^-$  | $\pm 18$  | V    |
| Differential Input Voltage                | $V_{ID}$  | $\pm 36$ (Note1)  | V    |
| Input Voltage                             | $V_{IN}$  | $V^- - 0.3$ to $V^+ + 0.3$ (Note2)  | V    |
| Input Current                             | $I_{IN}$  | $\pm 10$ (Note3)  | mA   |
| Power Dissipation<br>MSOP8 (VSP8)<br>SOP8 | $P_D$     | (2-layer / 4-layer)<br>595(Note4) / 805 (Note4)<br>690 (Note4) / 1000 (Note4) | mW   |
| Output Short-Circuit Duration             |           | Infinite( $T_a \leq 25^\circ$ ) (Note4)                                       |      |
| Operating Temperature Range               | $T_{opr}$ | -40 to +125   | °C   |
| Storage Temperature Range                 | $T_{stg}$ | -65 to +150   | °C   |

(Note1) Differential Input Voltage is the voltage difference between +INPUT and -INPUT.

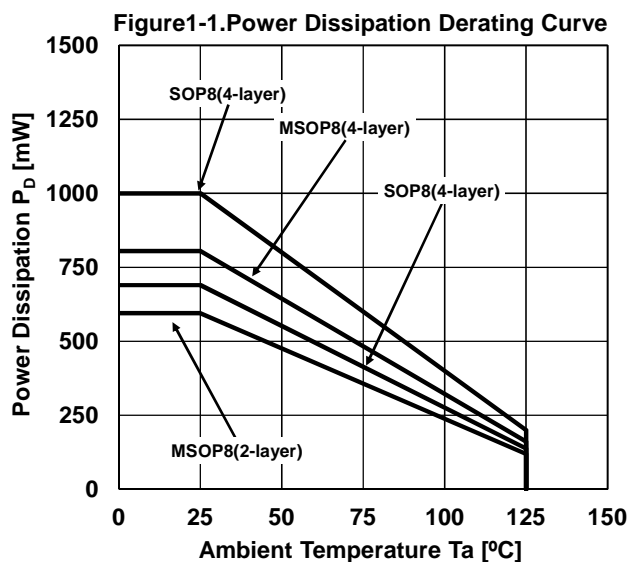
(Note2) The normal operation will establish when any input is within the Common Mode Input Voltage Range of electrical characteristics.

(Note3) If the input voltage exceeds the supply voltage, the input current must be limited 10 mA or less by using a restriction resistance.

(Note4) 2-layer : EIA/JEDEC STANDARD Test board (76.2 x 114.3 x 1.6mm, 2layers, FR-4) mounting.

4-layer : EIA/JEDEC STANDARD Test board (76.2 x 114.3 x 1.6mm, 4layers, FR-4) mounting.

See Figure "Fig.1-1 : Power Dissipation Curve" when ambient temperature is over 25°C.



## ■ RECOMMENDED OPERATING VOLTAGE (Ta=25°C)

| PARAMETER      | SYMBOL   | RATING | MIN.      | TYP. | MAX.     | UNIT |
|----------------|----------|--------|-----------|------|----------|------|
| Supply Voltage | $V^+V^-$ |        | $\pm 4.5$ | -    | $\pm 16$ | V    |

## ■ ELECTRICAL CHARACTERISTICS ( $V^+ / V^- = \pm 15V$ , $T_a = 25^\circ C$ , $V_{ICM} = 0V$ , unless otherwise noted.)

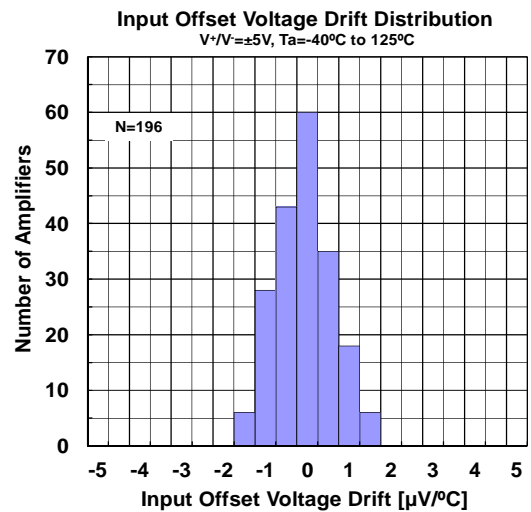
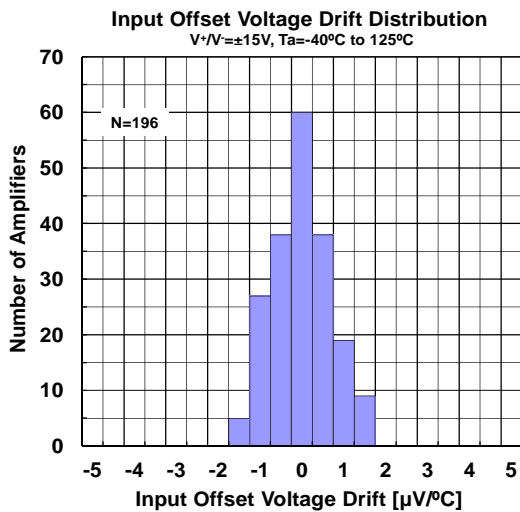
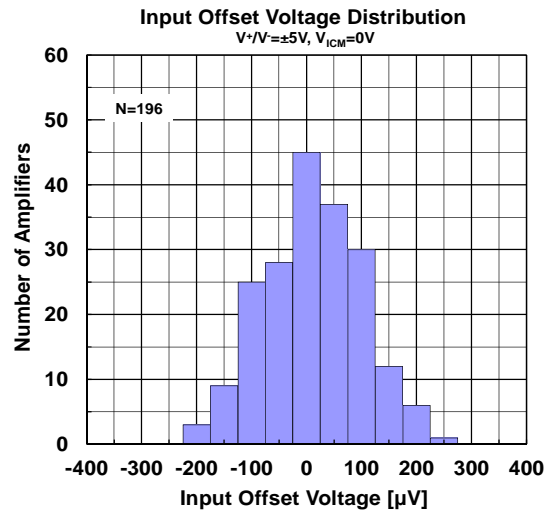
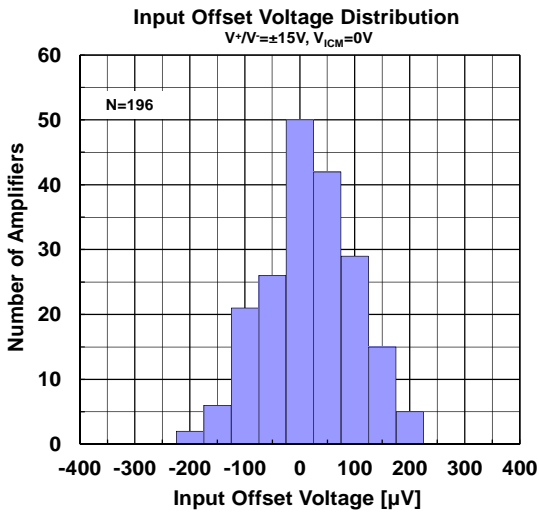
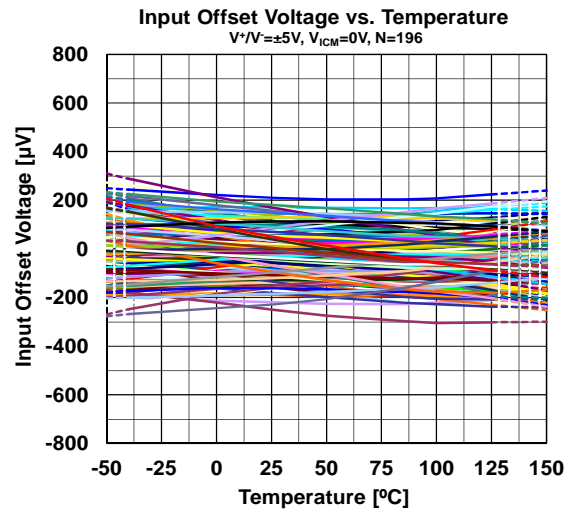
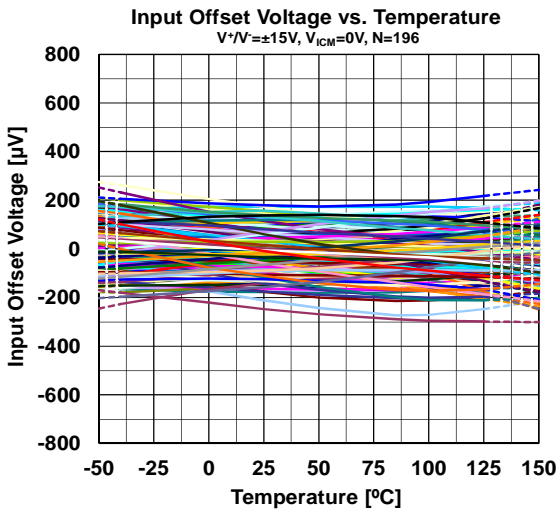
| PARAMETER                       | SYMBOL                     | TEST CONDITION  | MIN.  | TYP.   | MAX.  | UNIT               |
|---------------------------------|----------------------------|---|-------|--------|-------|--------------------|
| <b>Input Characteristics</b>    |                            |   |       |        |       |                    |
| Input Offset Voltage            |                            |   |       |        |       |                    |
| NJM8512BR/NJM8512BE             | $V_{IO1}$                  |   | -     | 80     | 400   | $\mu V$            |
|                                 | $V_{IO2}$                  | $T_a = -40^\circ C$ to $125^\circ C$  | -     | -      | 700   | $\mu V$            |
| NJM8512AR/NJM8512AE             | $V_{IO1}$                  |   | -     | 80     | 800   | $\mu V$            |
|                                 | $V_{IO2}$                  | $T_a = -40^\circ C$ to $125^\circ C$  | -     | -      | 1400  | $\mu V$            |
| Input Offset Voltage Drift      |                            |   |       |        |       |                    |
| NJM8512BR/NJM8512BE             | $\Delta V_{IO} / \Delta T$ | $T_a = -40^\circ C$ to $125^\circ C$  | -     | 0.8    | 5     | $\mu V / ^\circ C$ |
| NJM8512AR/NJM8512AE             | $\Delta V_{IO} / \Delta T$ | $T_a = -40^\circ C$ to $125^\circ C$  | -     | 1      | 9     | $\mu V / ^\circ C$ |
| Input Bias Current              | $I_{B1}$                   |   | -     | 25     | 80    | pA                 |
|                                 | $I_{B2}$                   | $T_a = -40^\circ C$ to $125^\circ C$  | -     | -      | 35    | nA                 |
| Input Offset Current            | $I_{IO1}$                  |   | -     | 6      | 75    | pA                 |
|                                 | $I_{IO2}$                  | $T_a = -40^\circ C$ to $125^\circ C$  | -     | -      | 2     | nA                 |
| Common Mode Input Voltage Range | $V_{ICM1}$                 | CMR 86dB  | -12.5 | -      | +12.5 | V                  |
|                                 | $V_{ICM2}$                 | CMR 80dB,<br>$T_a = -40^\circ C$ to $125^\circ C$                                       | -12.5 | -      | +12.5 | V                  |
| Common Mode Rejection Ratio     | CMR1                       | $V_{CM} = -12.5V$ to $+12.5V$   | 86    | 108    | -     | dB                 |
|                                 | CMR2                       | $V_{CM} = -12.5V$ to $+12.5V$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$                 | 80    | -      | -     | dB                 |
|                                 | CMR3                       | $V_{CM} = -10V$ to $+10V$   | 100   | 120    | -     | dB                 |
| Voltage Gain                    | $A_{V1}$                   | $R_L = 2k\Omega$ , $V_O = -13.5V$ to $+13.5V$   | 90    | 100    | -     | dB                 |
|                                 | $A_{V2}$                   | $R_L = 2k\Omega$ , $V_O = -13.5V$ to $+13.5V$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$ | 82    | -      | -     | dB                 |
|                                 | $A_{V3}$                   | $R_L = 10k\Omega$ , $V_O = -13.5V$ to $+13.5V$  | 98    | 106    | -     | dB                 |
| Input capacitance               | $C_{IN}$                   |   | -     | 10     | -     | pF                 |
| Channel Separation              | CS                         | DC  | -     | 125    | -     | dB                 |
| <b>Output Characteristics</b>   |                            |   |       |        |       |                    |
| Maximum Output Voltage          | $V_{OH1}$                  | $R_L = 10k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                | +14.0 | +14.2  | -     | V                  |
|                                 | $V_{OL1}$                  | $R_L = 10k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                | -     | -14.9  | -14.6 | V                  |
|                                 | $V_{OH2}$                  | $R_L = 2k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                 | +13.8 | +14.1  | -     | V                  |
|                                 | $V_{OL2}$                  | $R_L = 2k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                 | -     | -14.8  | -14.4 | V                  |
|                                 | $V_{OH31}$                 | $R_L = 600\Omega$   | +13.5 | +13.9  | -     | V                  |
|                                 | $V_{OH32}$                 | $R_L = 600\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                | +11.4 | -      | -     | V                  |
|                                 | $V_{OL41}$                 | $R_L = 600\Omega$   | -     | -14.3  | -13.8 | V                  |
|                                 | $V_{OL42}$                 | $R_L = 600\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                                | -     | -      | -12.1 | V                  |
| <b>Supply Characteristics</b>   |                            |   |       |        |       |                    |
| Supply Current                  | $I_{CC1}$                  | $G_V = +1$ , $R_L =$  | -     | 2.6    | 3.0   | mA                 |
|                                 | $I_{CC2}$                  | $G_V = +1$ , $R_L =$ , $T_a = -40^\circ C$ to $125^\circ C$                             | -     | -      | 3.3   | mA                 |
| Supply Voltage Rejection Ratio  | SVR1                       | $V^+ / V^- = \pm 4.5V$ to $\pm 16V$   | 86    | 110    | -     | dB                 |
|                                 | SVR2                       | $V^+ / V^- = \pm 4.5V$ to $\pm 16V$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$           | 80    | -      | -     | dB                 |
| <b>Dynamic Performance</b>      |                            |   |       |        |       |                    |
| Unity Gain Frequency            | fT                         | $G_V = +100$ , $R_L = 2k\Omega$ , $C_L = 10pF$  | -     | 7      | -     | MHz                |
| Slew Rate                       | +SR                        | RISE, $G_V = +1$ , $V_{IN} = 1V_{pp}$ , $R_L = 2k\Omega$                                | -     | 20     | -     | V/ $\mu s$         |
|                                 | -SR                        | FALL, $G_V = +1$ , $V_{IN} = 1V_{pp}$ , $R_L = 2k\Omega$                                | -     | 20     | -     | V/ $\mu s$         |
| Settling Time                   | ts1                        | To 0.1%, 0V to 10V step, $G_V = +1$   | -     | 0.7    | -     | $\mu s$            |
|                                 | ts2                        | To 0.01%, 0V to 10V step, $G_V = +1$  | -     | 1.0    | -     | $\mu s$            |
| Phase Margin                    | $\Phi_M$                   |   | -     | 70     | -     | deg                |
| Total Harmonic Distortion       | THD                        | $f_o = 1kHz$ , $G_V = +1$ , $R_L = 2k\Omega$  | -     | 0.0004 | -     | %                  |
| <b>Noise Performance</b>        |                            |   |       |        |       |                    |
| Input Voltage Noise Density     | $V_{NI}$                   | $f_o = 0.1Hz$ to $10Hz$   | -     | 0.9    | -     | $\mu V_{pp}$       |
|                                 | en1                        | $f_o = 10Hz$  | -     | 20     | -     | nV/ Hz             |
|                                 | en2                        | $f_o = 100Hz$   | -     | 11     | -     | nV/ Hz             |
|                                 | en3                        | $f_o = 1kHz$  | -     | 10     | -     | nV/ Hz             |
|                                 | en4                        | $f_o = 10kHz$   | -     | 9      | -     | nV/ Hz             |

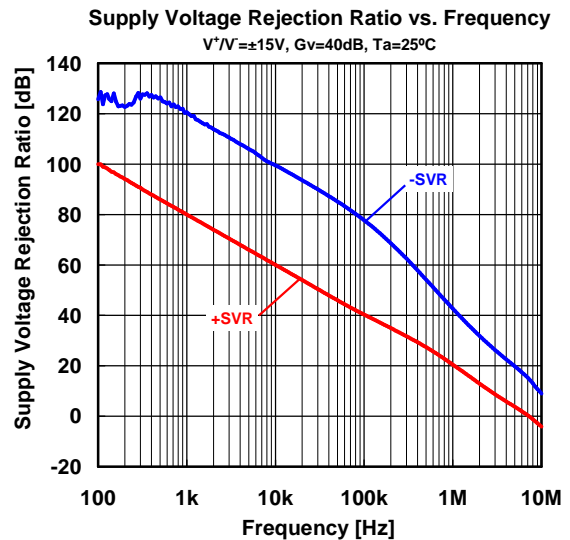
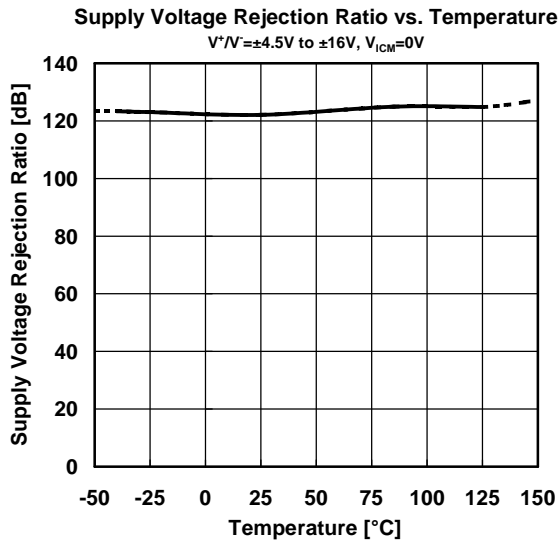
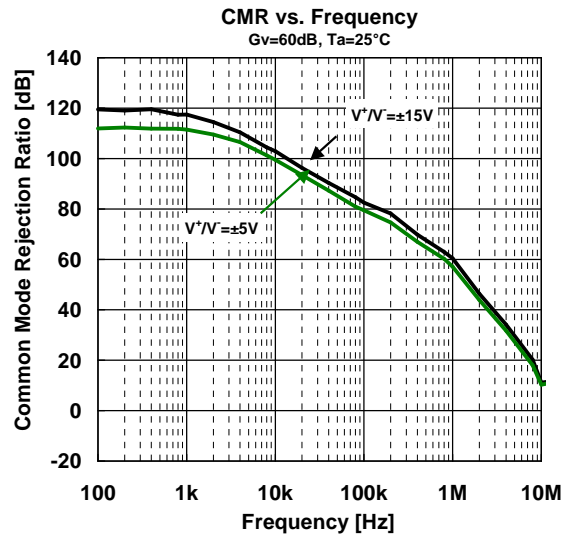
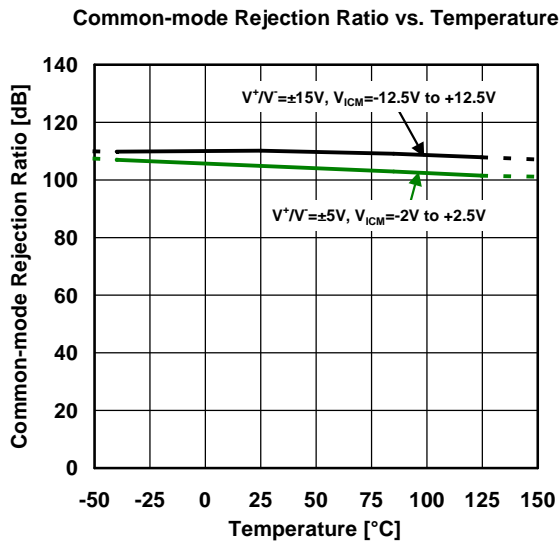
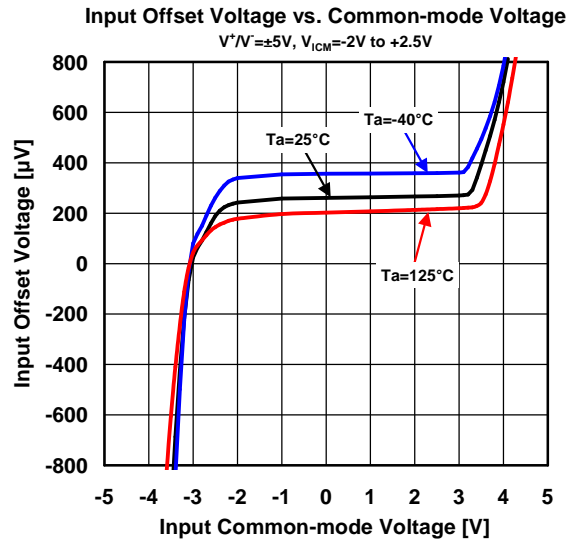
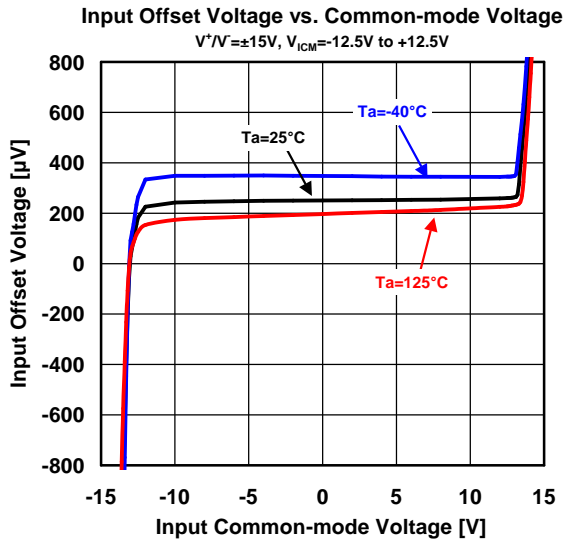
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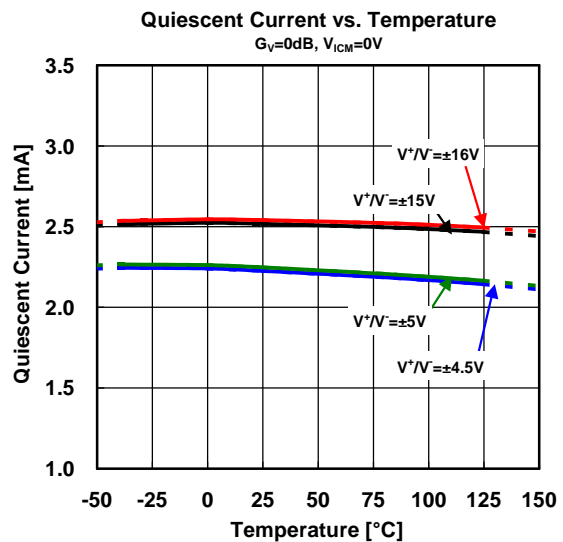
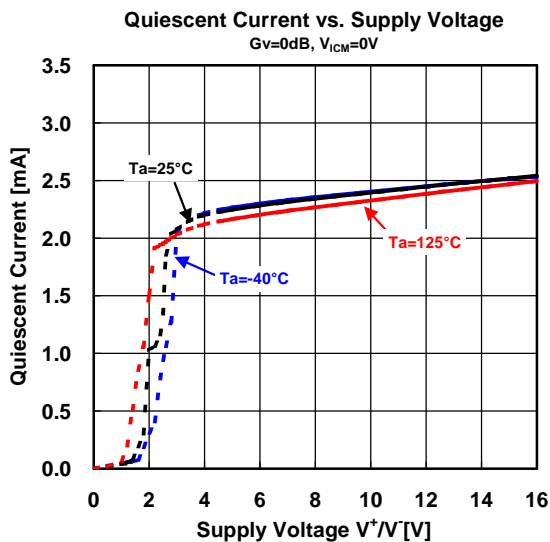
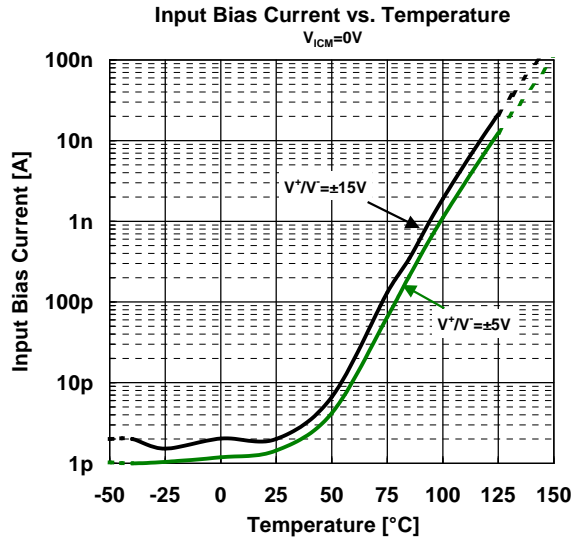
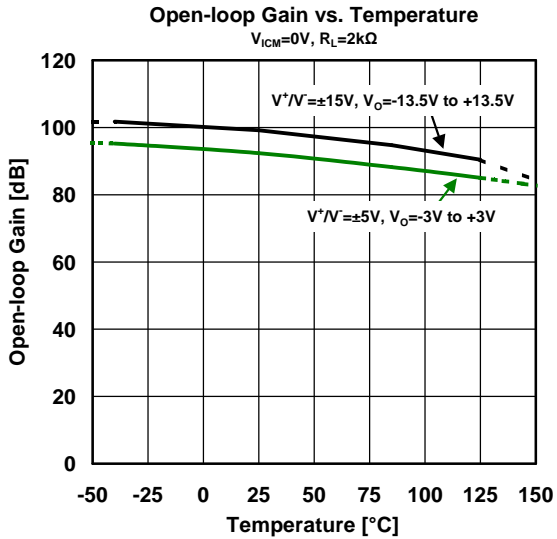
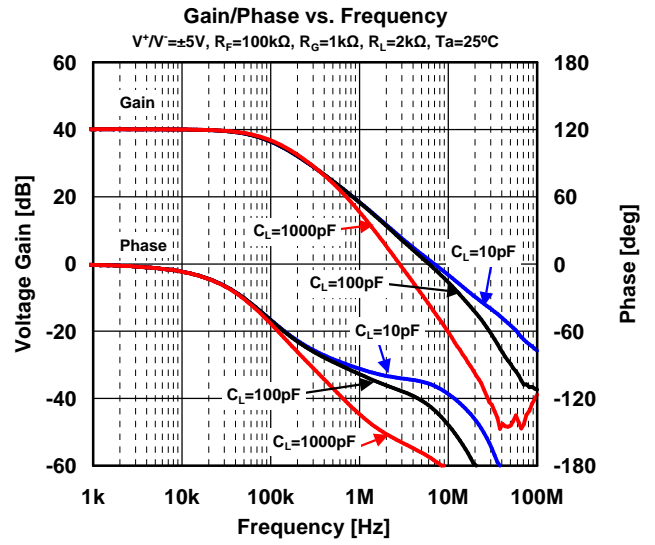
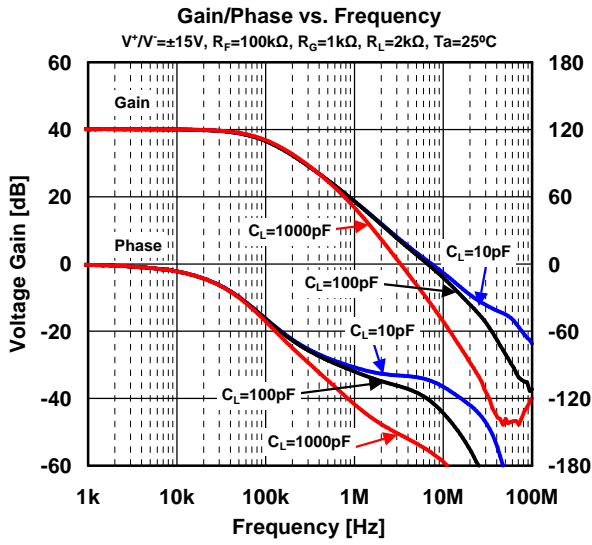
## ■ ELECTRICAL CHARACTERISTICS ( $V^+V^- = \pm 5V$ , $T_a = 25^\circ C$ , $V_{ICM} = 0V$ , unless otherwise noted.)

| PARAMETER                       | SYMBOL                   | TEST CONDITION  | MIN. | TYP.   | MAX. | UNIT             |
|---------------------------------|--------------------------|---|------|--------|------|------------------|
| Input Characteristics           |                          |   |      |        |      |                  |
| Input Offset Voltage            |                          |   |      |        |      |                  |
| NJM8512BR/NJM8512BE             | $V_{IO1}$                |   | -    | 80     | 400  | $\mu V$          |
|                                 | $V_{IO2}$                | $T_a = -40^\circ C$ to $125^\circ C$  | -    | -      | 700  | $\mu V$          |
| NJM8512AR/NJM8512AE             | $V_{IO1}$                |   | -    | 80     | 800  | $\mu V$          |
|                                 | $V_{IO2}$                | $T_a = -40^\circ C$ to $125^\circ C$  | -    | -      | 1400 | $\mu V$          |
| Input Offset Voltage Drift      |                          |   |      |        |      |                  |
| NJM8512BR/NJM8512BE             | $\Delta V_{IO}/\Delta T$ | $T_a = -40^\circ C$ to $125^\circ C$  | -    | 0.8    | 5    | $\mu V/^\circ C$ |
| NJM8512AR/NJM8512AE             | $\Delta V_{IO}/\Delta T$ | $T_a = -40^\circ C$ to $125^\circ C$  | -    | 1      | 9    | $\mu V/^\circ C$ |
| Input Bias Current              |                          |   |      |        |      |                  |
|                                 | $I_{B1}$                 |   | -    | 21     | 75   | pA               |
|                                 | $I_{B2}$                 | $T_a = -40^\circ C$ to $125^\circ C$  | -    | -      | 31   | nA               |
| Input Offset Current            |                          |   |      |        |      |                  |
|                                 | $I_{IO1}$                |   | -    | 5      | 50   | pA               |
|                                 | $I_{IO2}$                | $T_a = -40^\circ C$ to $125^\circ C$  | -    | -      | 2    | nA               |
| Common Mode Input Voltage Range |                          |   |      |        |      |                  |
|                                 | $V_{ICM1}$               | CMR 86dB  | -2   | -      | +2.5 | V                |
|                                 | $V_{ICM2}$               | CMR 80dB,<br>$T_a = -40^\circ C$ to $125^\circ C$                                 | -2   | -      | +2.5 | V                |
| Common Mode Rejection Ratio     |                          |   |      |        |      |                  |
|                                 | CMR1                     | $V_{CM} = -2V$ to $+2.5V$   | 86   | 108    | -    | dB               |
|                                 | CMR2                     | $V_{CM} = -2V$ to $+2.5V$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$               | 80   | -      | -    | dB               |
|                                 | CMR3                     | $V_{CM} = -1V$ to $+2V$   | 92   | 113    | -    | dB               |
| Voltage Gain                    |                          |   |      |        |      |                  |
|                                 | $A_{V1}$                 | $R_L = 2k\Omega$ , $V_O = -3V$ to $+3V$   | 85   | 93     | -    | dB               |
|                                 | $A_{V2}$                 | $R_L = 2k\Omega$ , $V_O = -3V$ to $+3V$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$ | 80   | -      | -    | dB               |
|                                 | $A_{V3}$                 | $R_L = 10k\Omega$ , $V_O = -3V$ to $+3V$  | 90   | 100    | -    | dB               |
| Input capacitance               | $C_{IN}$                 |   | -    | 10     | -    | pF               |
| Channel Separation              | CS                       | DC  | -    | 125    | -    | dB               |
| Output Characteristics          |                          |   |      |        |      |                  |
| Maximum Output Voltage          |                          |   |      |        |      |                  |
|                                 | $V_{OH1}$                | $R_L = 10k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                          | +4.1 | +4.3   | -    | V                |
|                                 | $V_{OL1}$                | $R_L = 10k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                          | -    | -4.9   | -4.7 | V                |
|                                 | $V_{OH2}$                | $R_L = 2k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                           | +3.9 | +4.2   | -    | V                |
|                                 | $V_{OL2}$                | $R_L = 2k\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                           | -    | -4.9   | -4.5 | V                |
|                                 | $V_{OH31}$               | $R_L = 600\Omega$   | +3.7 | +4.1   | -    | V                |
|                                 | $V_{OH32}$               | $R_L = 600\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                          | +3.6 | -      | -    | V                |
|                                 | $V_{OL41}$               | $R_L = 600\Omega$   | -    | -4.8   | -4.3 | V                |
|                                 | $V_{OL42}$               | $R_L = 600\Omega$ , $T_a = -40^\circ C$ to $125^\circ C$                          | -    | -      | -4.2 | V                |
| Supply Characteristics          |                          |   |      |        |      |                  |
| Supply Current                  |                          |   |      |        |      |                  |
|                                 | $I_{CC1}$                | $G_V = +1$ , $R_L =$  | -    | 2.0    | 3.0  | mA               |
|                                 | $I_{CC2}$                | $G_V = +1$ , $R_L =$ ,<br>$T_a = -40^\circ C$ to $125^\circ C$                    | -    | -      | 3.3  | mA               |
| Dynamic Performance             |                          |   |      |        |      |                  |
| Unity Gain Frequency            | fT                       | $G_V = +100$ , $R_L = 2k\Omega$ , $C_L = 10pF$                                    | -    | 7      | -    | MHz              |
| Slew Rate                       | +SR                      | RISE, $G_V = +1$ , $V_{IN} = 1V_{pp}$ , $R_L = 2k\Omega$                          | -    | 18     | -    | V/ $\mu s$       |
|                                 | -SR                      | FALL, $G_V = +1$ , $V_{IN} = 1V_{pp}$ , $R_L = 2k\Omega$                          | -    | 18     | -    | V/ $\mu s$       |
| Settling Time                   | ts1                      | To 0.1%, 0V to 4V step, $G_V = +1$  | -    | 0.5    | -    | $\mu s$          |
| Phase Margin                    | $\Phi_M$                 |   | -    | 65     | -    | deg              |
| Total Harmonic Distortion       | THD                      | fo=1kHz, $G_V = +1$ , $R_L = 2k\Omega$  | -    | 0.0005 | -    | %                |
| Noise Performance               |                          |   |      |        |      |                  |
| Input Voltage Noise Density     |                          |   |      |        |      |                  |
|                                 | $V_{NI}$                 | fo=0.1Hz to 10Hz  | -    | 0.9    | -    | $\mu V_{pp}$     |
|                                 | en1                      | fo=10Hz   | -    | 20     | -    | nV/ Hz           |
|                                 | en2                      | fo=100Hz  | -    | 11     | -    | nV/ Hz           |
|                                 | en3                      | fo=1kHz   | -    | 10     | -    | nV/ Hz           |
|                                 | en4                      | fo=10kHz  | -    | 9      | -    | nV/ Hz           |

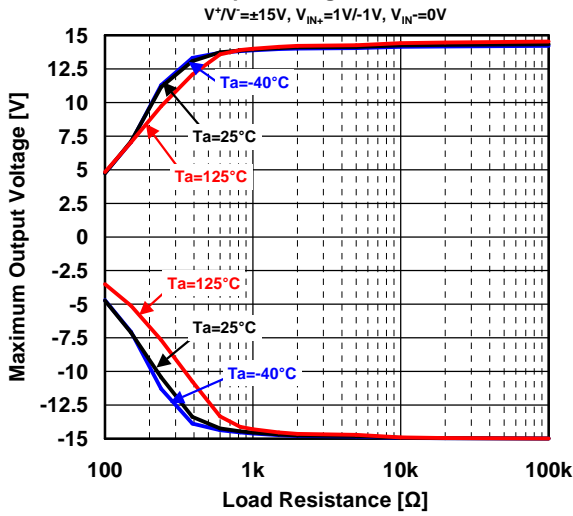
## ELECTRICAL CHARACTERISTICS



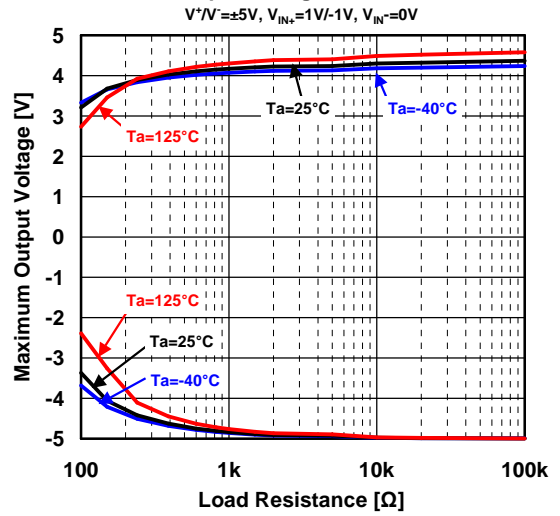




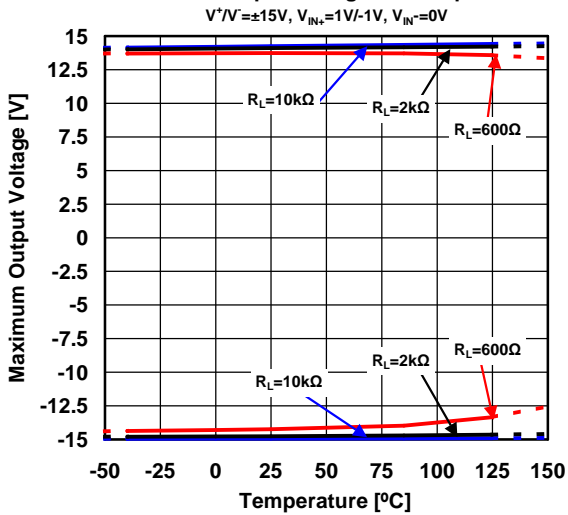
Maximum Output Voltage vs. Load Resistance



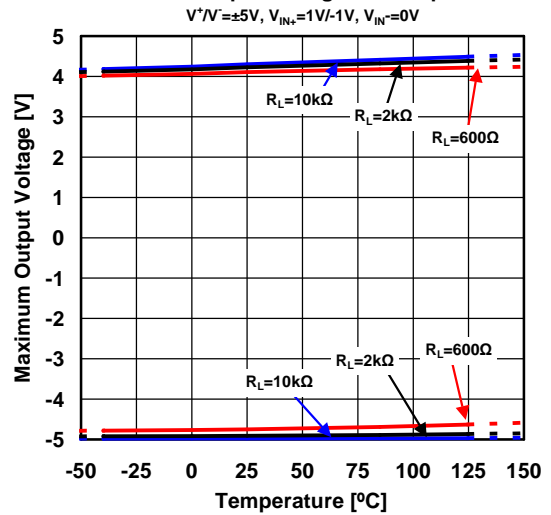
Maximum Output Voltage vs. Load Resistance



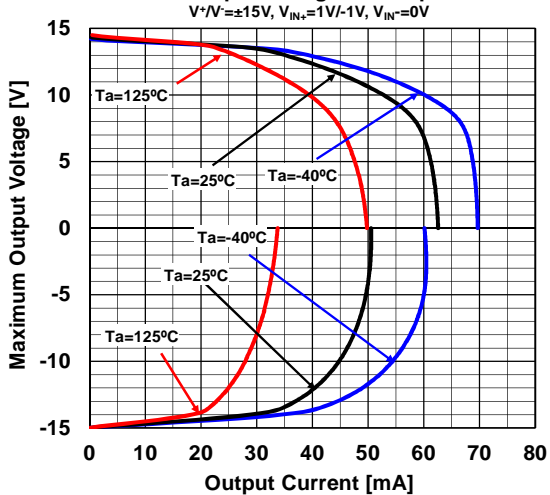
Maximum Output Voltage vs. Temperature



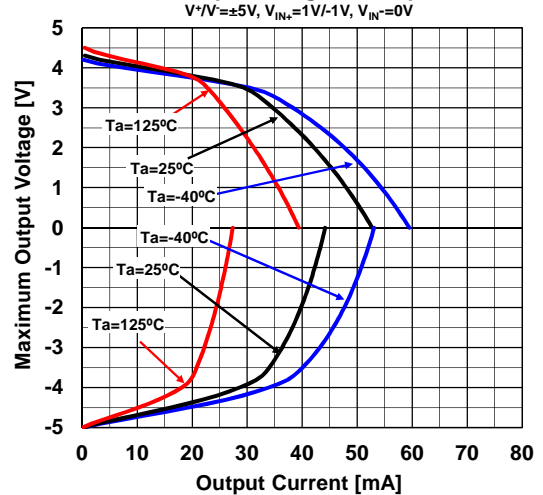
Maximum Output Voltage vs. Temperature



Maximum Output Voltage vs. Output Current



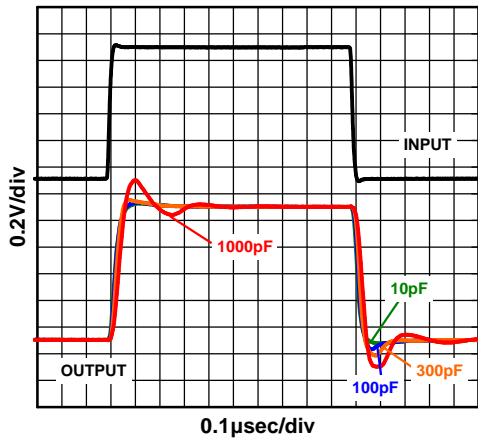
Maximum Output Voltage vs. Output Current





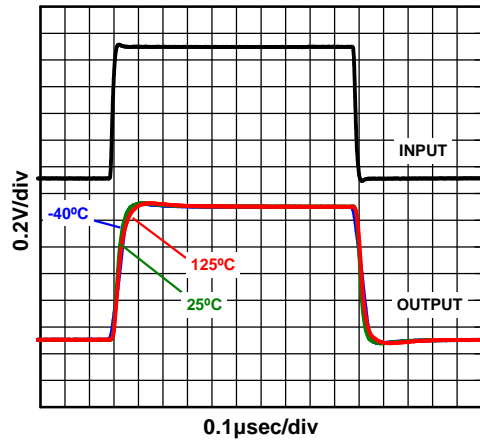
**Small-Signal Step Response (Load Capacitance)**

$V^+/V^- = \pm 15V$ ,  $G_v = 0dB$ ,  $V_{IN} = 1V_{pp}$ ,  $R_L = 2k\Omega$ ,  $T_a = 25^\circ C$



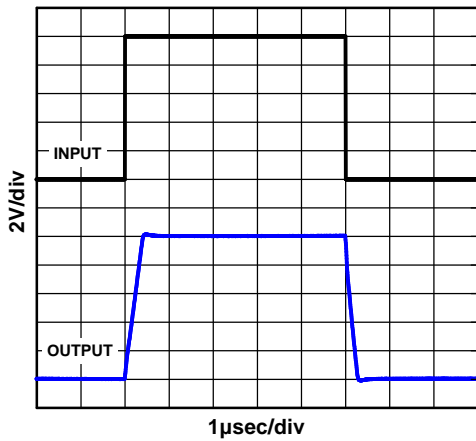
**Small-Signal Step Response (Temperature)**

$V^+/V^- = \pm 15V$ ,  $G_v = 0dB$ ,  $V_{IN} = 1V_{pp}$ ,  $R_L = 2k\Omega$ ,  $C_L = 10pF$



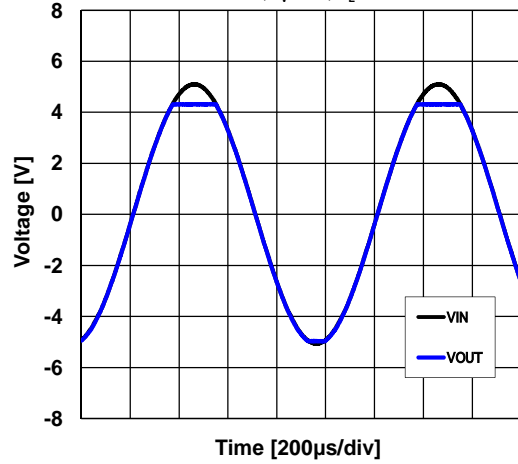
**Large Signal Step Response**

$V^+/V^- = \pm 15V$ ,  $G_v = 0dB$ ,  $V_{IN} = 10V_{pp}$ ,  $R_L = 2k\Omega$



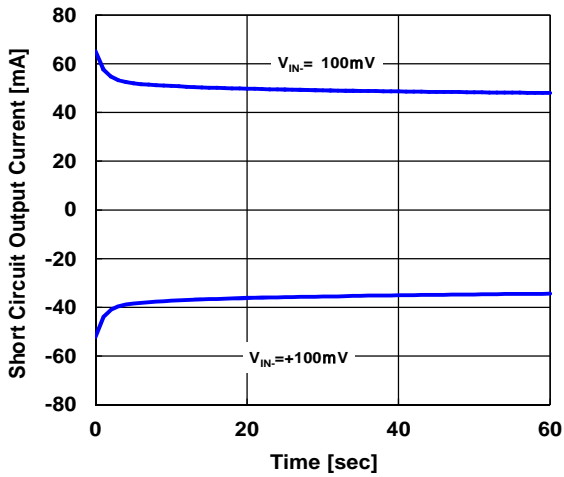
**Input Voltage vs. Output Voltage**

$V^+/V^- = \pm 5V$ ,  $A_v = 0dB$ ,  $R_L = 10k\Omega$

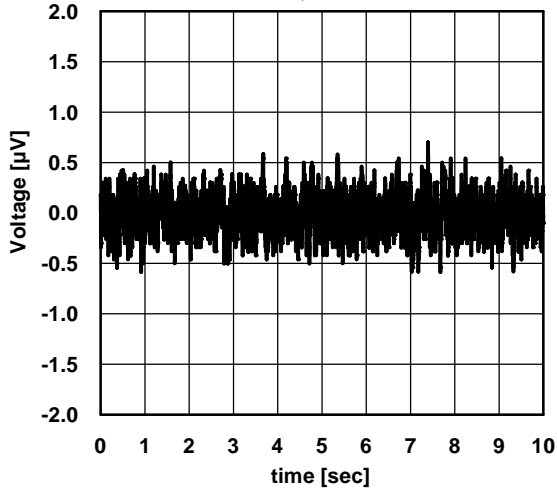


**Short Circuit Output Current**

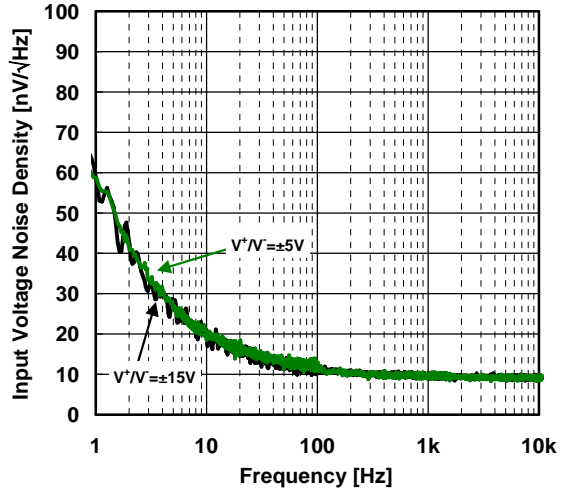
$V^+/V^- = \pm 15V$ ,  $V_{IN} = 0V$ ,  $V_O = 0V$ ,  $T_a = 25^\circ C$



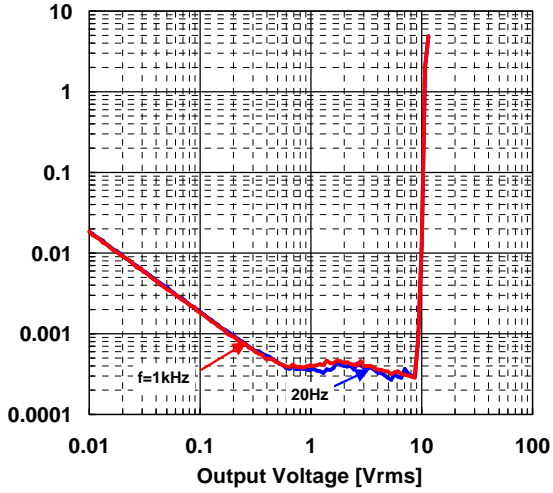
1Hz to 100Hz Input Voltage Noise  
 $V^*V = \pm 15V$ , 1 to 100Hz BPF



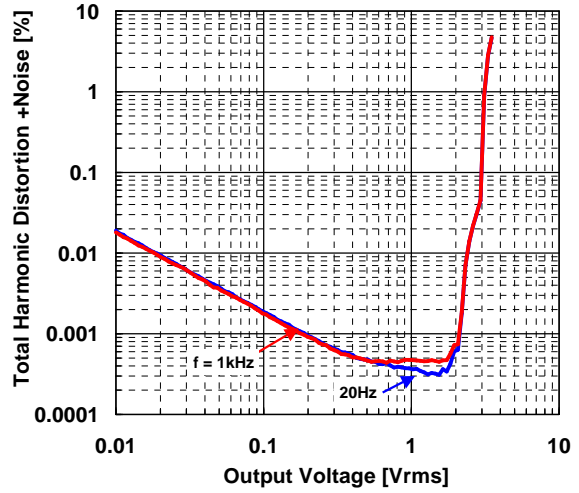
Input Voltage Noise Density vs. Frequency  
 $G_v = 40dB$ ,  $R_G = 100\Omega$ ,  $R_L = 10k\Omega$ ,  $T_a = 25^\circ C$



THD + Noise vs. Output Voltage  
 $V^*V = \pm 15V$ ,  $A_v = +1$ ,  $R_L = 2k\Omega$ ,  $T_a = 25^\circ C$

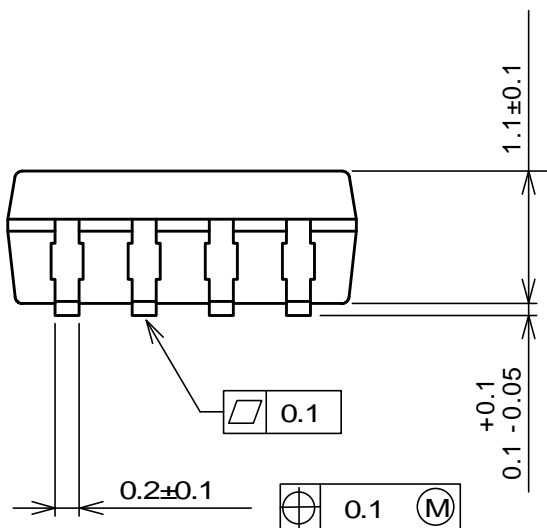
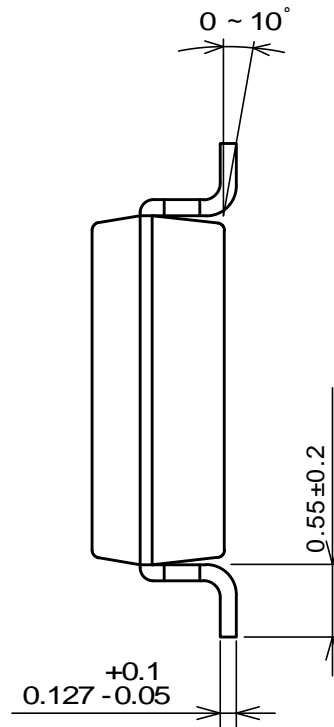
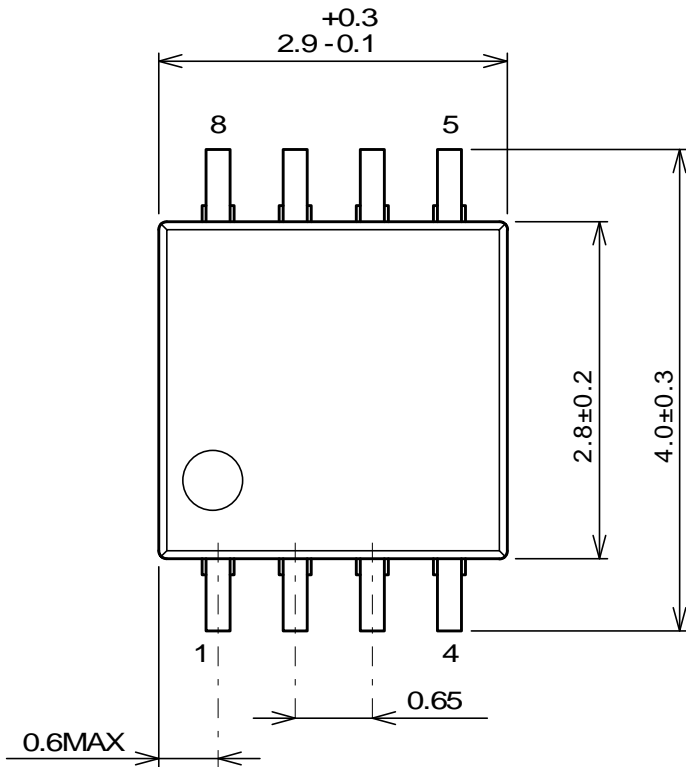


THD + Noise vs. Output Voltage  
 $V^*V = \pm 5V$ ,  $A_v = +1$ ,  $R_L = 2k\Omega$ ,  $T_a = 25^\circ C$



## ■ PACKAGE DIMENSIONS

### MSOP8(VSP8)

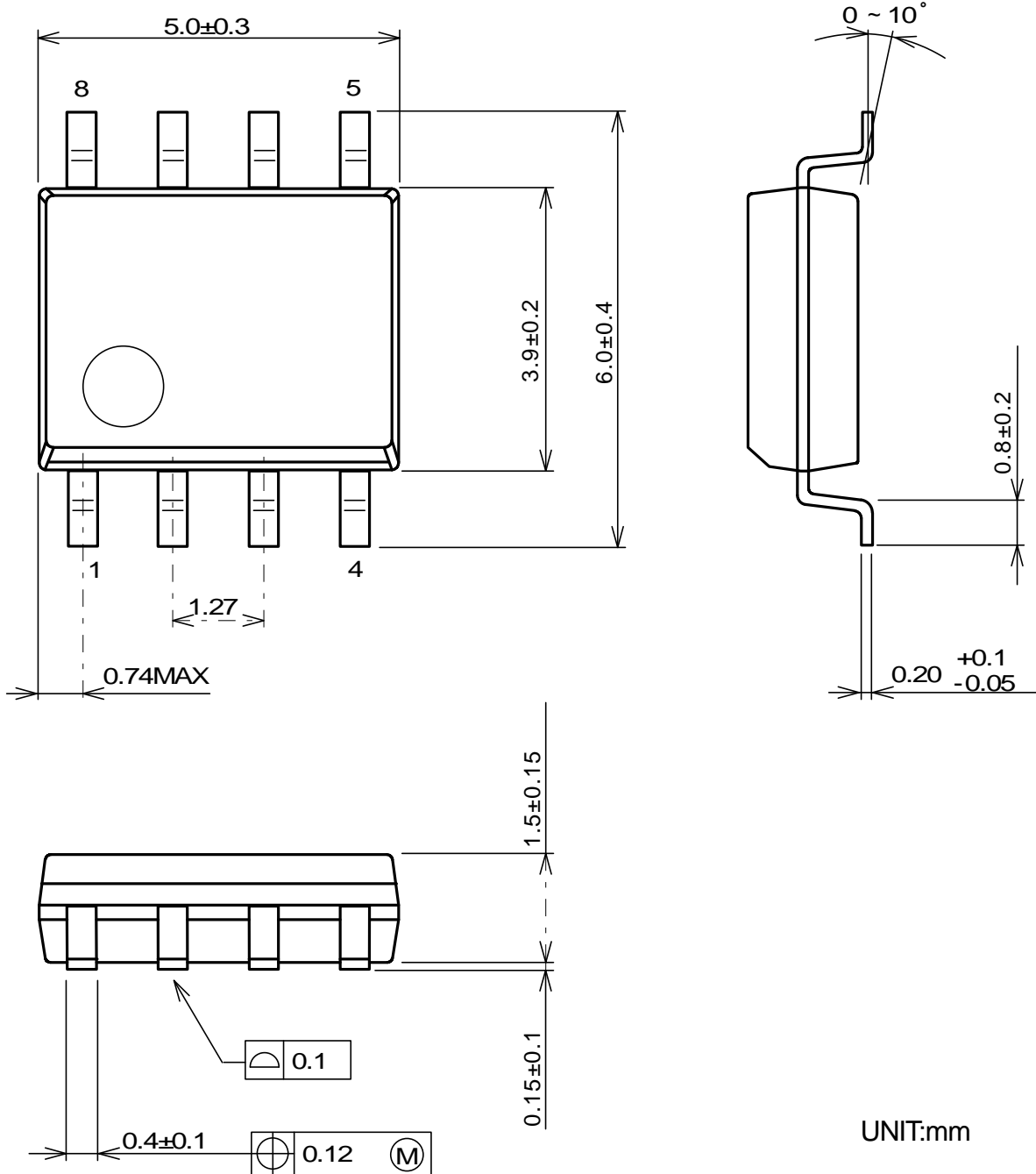


UNIT: mm

# NJM8512

## ■PACKAGE DIMENSIONS

### SOP8 JEDEC 150 mil



UNIT:mm

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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