

## / Descriptions

SOP-8

Dual Operational Amplifiers in a SOP-8 Plastic Package.

## / Features

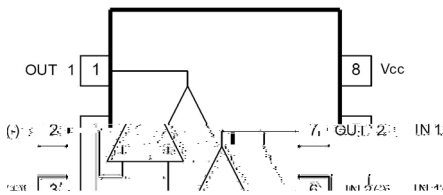
$\pm 4 \sim \pm 18V$

Large common mode and differential voltage range, Gain and phase match between amplifiers, Internally frequency compensated, Low noise input transistors, Operating supply voltage range:  $\pm 4$  to  $\pm 18V$ .

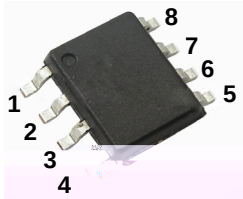
## / Applications

Application areas include transducer amplifier, DC gain blocks and all the conventional OP amp circuits.

## / Equivalent Circuit



## / Pinning



PIN

/ PIN See Equivalent Circuit.

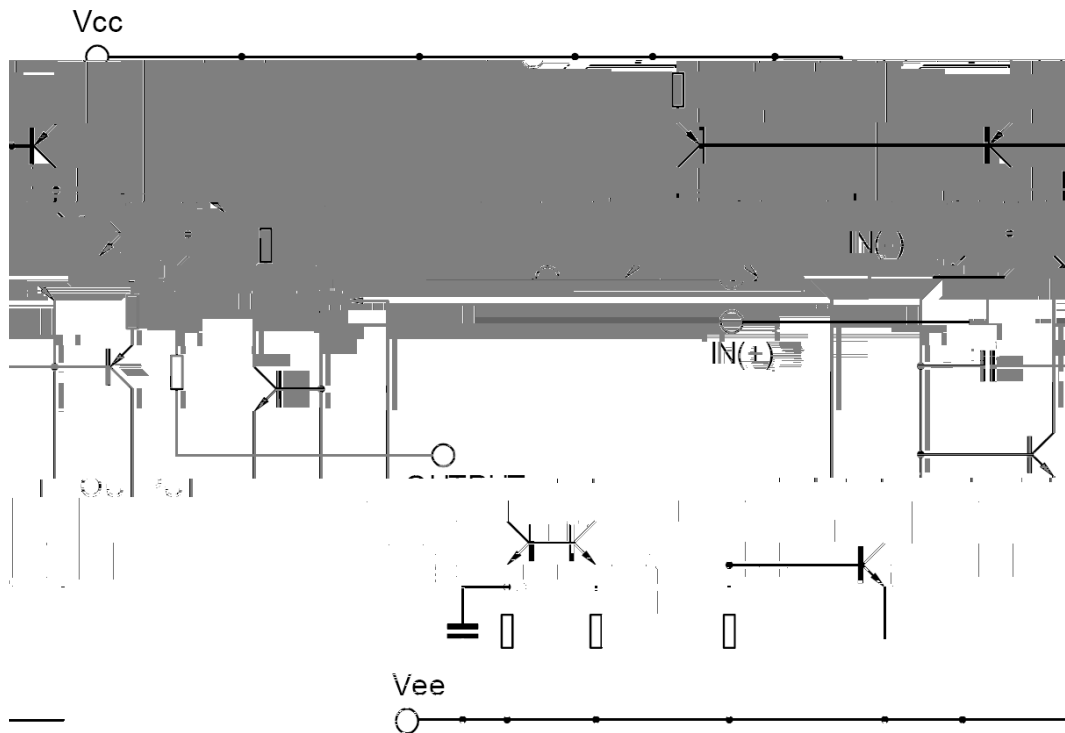
## / Marking

/ See Marking Instructions

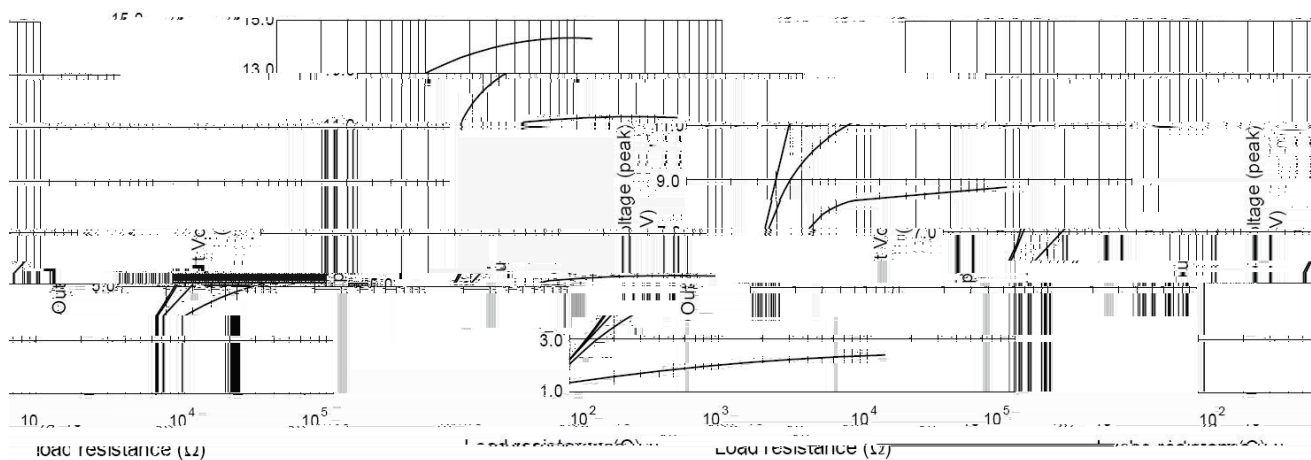
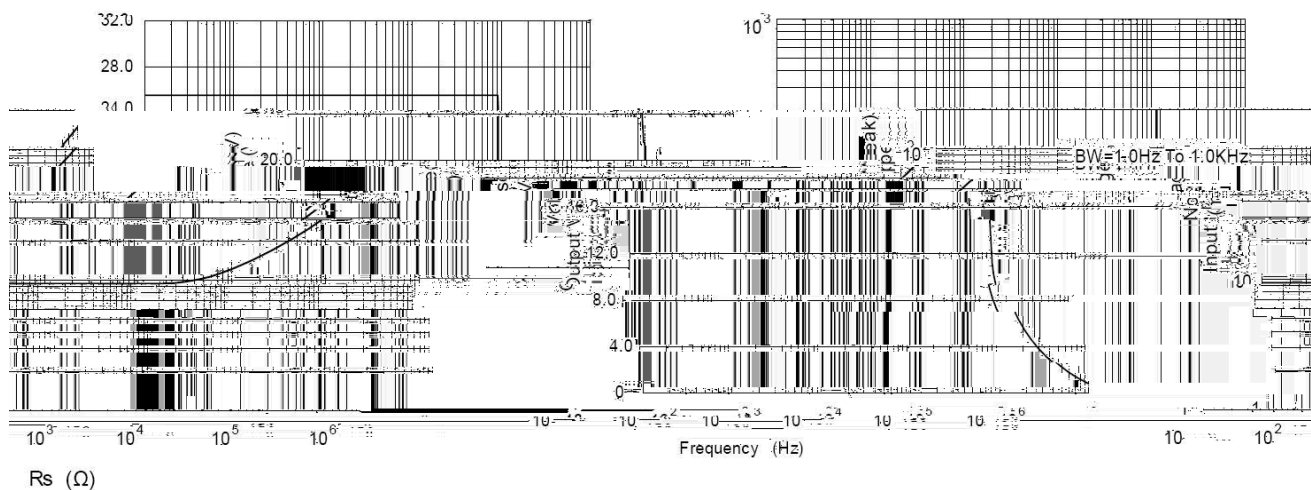
| Parameter                  | Symbol        | Rating    | Unit |
|----------------------------|---------------|-----------|------|
| Supply Voltage             | $V_{CC}$      | $\pm 22$  | V    |
| Differential input voltage | $V_{I(DIFF)}$ | $\pm 18$  | V    |
| Input Voltage              | $V_I$         | $\pm 15$  | V    |
| Power Dissipation          | $P_D$         | 300       | mW   |
| Operating Temperature      | $T_{opr}$     | -40 ~ 85  |      |
| Storage Temperature        | $T_{stg}$     | -40 ~ 125 |      |

| Parameter            | Symbol   | Test Conditions                                                               | Min        | Typ        | Max | Unit                      |
|----------------------|----------|-------------------------------------------------------------------------------|------------|------------|-----|---------------------------|
| Input offset voltage | $V_{IO}$ | $V_{CC}=15V$ $V_{EE}=-15V$<br>$R_s < 743 \Omega$ $T_D = -40 \sim 125^\circ C$ | -478.94284 | 74.5543886 | TD0 | Tc<054Tj/0TT4 1 Tf.115 t= |
|                      |          | $V_{EE}=135V$                                                                 |            |            |     |                           |

/ Functional Block Diagram



/ Electrical Characteristic Curve



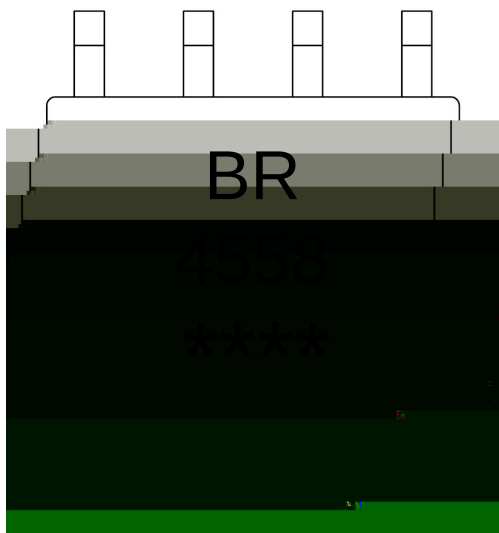
**BROP4558SC**

Rev.E Oct.-2018

## / Package Dimensions



/ Marking Instructions



BR

4558

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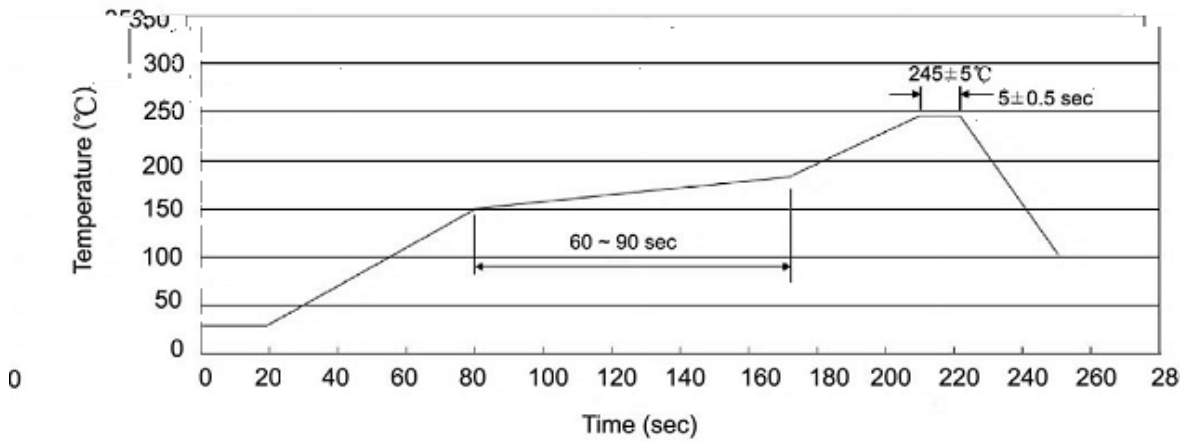
Note:

BR: Company Code.

4558: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

(    ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |    |           |                                         |
|---|-------|-----|----|-----------|-----------------------------------------|
| 1 | 150   | 180 | 60 | 90sec;    | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     |    | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10 | /sec.     | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

260±5                      10±1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

| Package Type | Units 包装数量 | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |
|--------------|------------|-----------------------------------------|
| 封装形式         | 只 卷盘 卷盘 盒  |                                         |