

一、器件描述 / Descriptions

SOT-89                      PNP                      Silicon PNP transistor in a SOT-89 Plastic Package.

二、主要特性 / Features

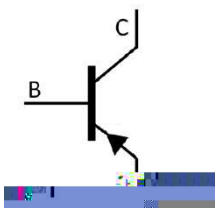
2SD1898

High breakdown voltage, good  $h_{FE}$  linearity, low  $V_{CE(sat)}$ , complements the 2SD1898.

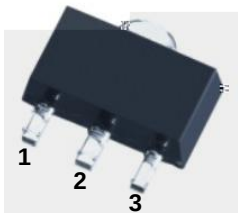
三、应用 / Applications

General power amplifier applications.

四、等效电路 / Equivalent Circuit



五、引脚 / Pinning



PIN1    Base                      PIN 2    Collector                      PIN 3    Emitter

六、标识 / Marking

|                                    |         |          |          |
|------------------------------------|---------|----------|----------|
| $h_{FE}$ Classifications<br>Symbol | P       | Q        | R        |
| $h_{FE}$ Range                     | 82` 180 | 120` 270 | 180` 390 |
| Marking                            | HBHP*   | HBHQ*    | HBHR*    |

| Parameter                           | Symbol    | Rating   | Unit |
|-------------------------------------|-----------|----------|------|
| Collector to Base Voltage           | $V_{CBO}$ | -80      | V    |
| Collector to Emitter Voltage        | $V_{CEO}$ | -80      | V    |
| Emitter to Base Voltage             | $V_{EBO}$ | -5.0     | V    |
| Collector Current-Continuous        | $I_C$     | -1.0     | A    |
| Collector Current-Continuous(Pulse) | $*I_{CP}$ | -2.0     | A    |
| Collector Power Dissipation         | $**P_C$   | 0.5      | W    |
|                                     | $*P_C$    | 2.0      | W    |
| Junction Temperature                | $T_j$     | 150      |      |
| Storage Temperature Range           | $T_{stg}$ | -55° 150 |      |

\*Single pulse  $P_w=100ms$

100ms  $\hat{A}$

\*\*mounted on 40×40×0.7mm ceramic board

40×40×0.7m

$\hat{A}$

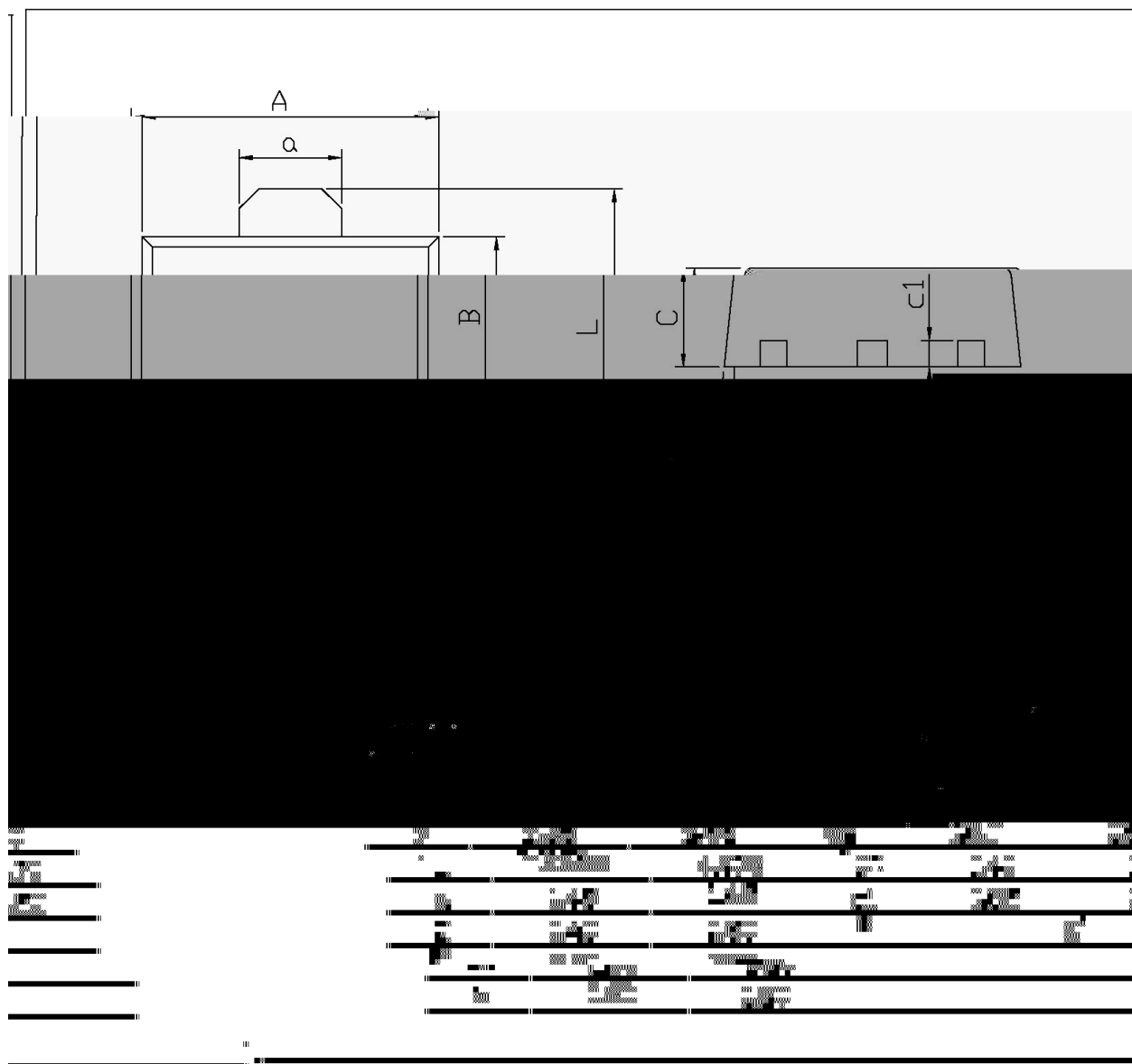
| Parameter                           | Symbol    | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------------|-----------|-----------------|-----|-----|-----|------|
| Collector to Base Breakdown Voltage | $V_{CBO}$ | $I_C$           |     |     |     |      |

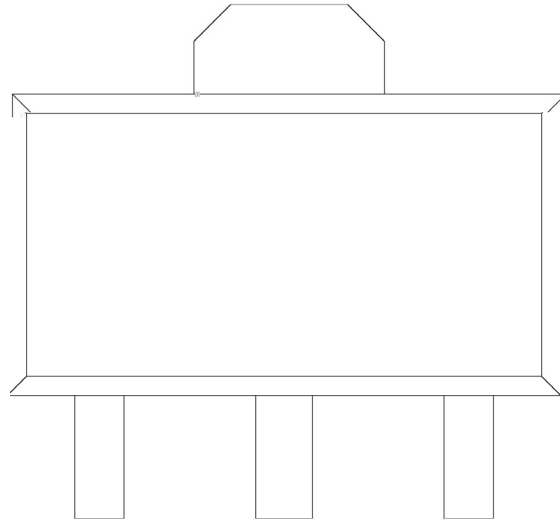


⊂ É Ò L f / Package Dimensions

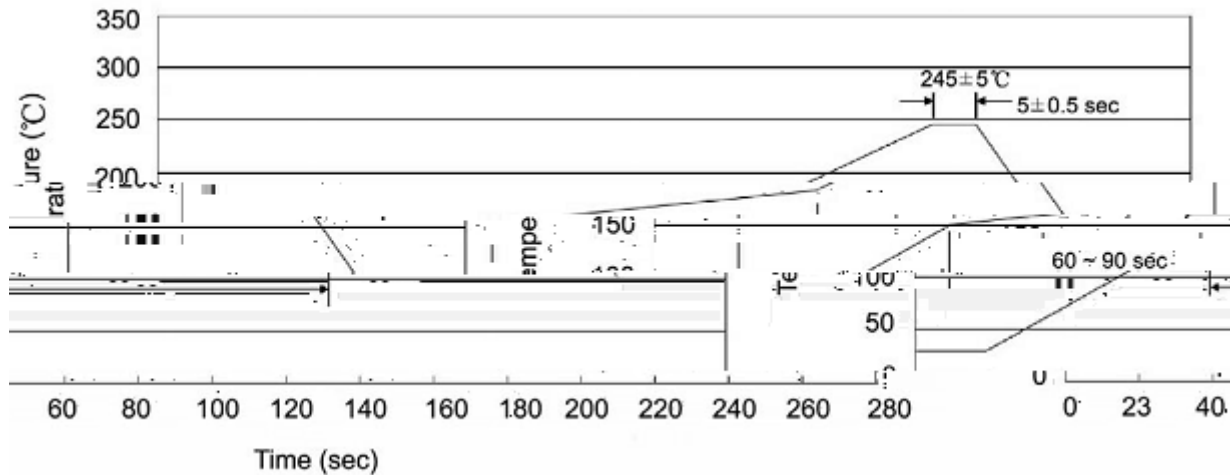
STT-89

单位: mm





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Note:

1. Preheating: 25~150 , Time: 60~90sec.
2. Peak Temp.: 245±5 , Duration: 5±0.5sec.
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      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |           |           |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-----------|-----------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box | Outer Box |
| SOT-89       | 1,000      | 7               | 7,000           | 8                     | 56,000          | 7 ρ ×12                           |           |           |