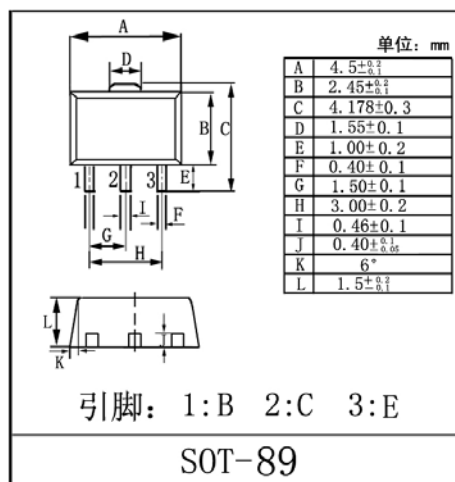


用途:用于音频输出放大/Purpose: Audio frequency output amplifier.

特点:饱和压降低,高性能/Features: Low  $V_{CE(sat)}$ , high performance.

极限参数/Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

| 参数符号<br>Symbol | 数值<br>Rating | 单位<br>Unit       |
|----------------|--------------|------------------|
| $V_{CBO}$      | 40           | V                |
| $V_{CEO}$      | 20           | V                |
| $V_{EBO}$      | 7.0          | V                |
| $I_C$          | 5.0          | A                |
| $I_{CP}$       | 8.0          | A                |
| $P_C$          | 500          | mW               |
| $T_j$          | 150          | $^\circ\text{C}$ |
| $T_{stg}$      | -55~150      | $^\circ\text{C}$ |



电性能参数/Electrical characteristics ( $T_a=25^\circ\text{C}$ )

| 参数符号<br>Symbol | 测试条件<br>Test condition |                           | 数值<br>Rating |            |            | 单位<br>Unit    |
|----------------|------------------------|---------------------------|--------------|------------|------------|---------------|
|                |                        |                           | 最小值<br>Min   | 典型值<br>Typ | 最大值<br>Max |               |
| $V_{CEO}$      | $I_C=1.0\text{mA}$     | $I_B=0$                   | 20           |            |            | V             |
| $V_{EBO}$      | $I_E=10\ \mu\text{A}$  | $I_C=0$                   | 7.0          |            |            | V             |
| $I_{CBO}$      | $V_{CB}=10\text{V}$    | $I_E=0$                   |              |            | 0.1        | $\mu\text{A}$ |
| $I_{EBO}$      | $V_{EB}=7.0\text{V}$   | $I_C=0$                   |              |            | 0.1        | $\mu\text{A}$ |
| $h_{FE(1)}$    | $V_{CE}=2.0\text{V}$   | $I_C=0.5\text{A}$         | 180          |            | 1000       |               |
| $h_{FE(2)}$    | $V_{CE}=2.0\text{V}$   | $I_C=2.0\text{A}$         | 150          |            |            |               |
| $V_{CE(sat)}$  | $I_C=3.0\text{A}$      | $I_B=0.1\text{A}$         |              |            | 1.0        | V             |
| $f_T$          | $V_{CE}=6.0\text{V}$   | $I_C=50\text{mA}$         |              | 150        |            | MHz           |
| $C_{ob}$       | $V_{CB}=20\text{V}$    | $I_E=0$ $f=1.0\text{MHz}$ |              |            | 50         | pF            |

$h_{FE(1)}$ 分档、印章标记/ $h_{FE(1)}$  Classifications、Marking:

| $h_{FE(1)}$ 分档<br>$h_{FE(1)}$ Classifications | P       | Q       | R       | S        |
|---|---------|---------|---------|----------|
| $h_{FE(1)}$ 范围<br>$h_{FE(1)}$ Range           | 180~270 | 230~380 | 340~600 | 560~1000 |
| 印章<br>Marking                                 | H65P    | H65Q    | H65R    | H65S     |

# 2SD965T (3DG965T)

