

AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

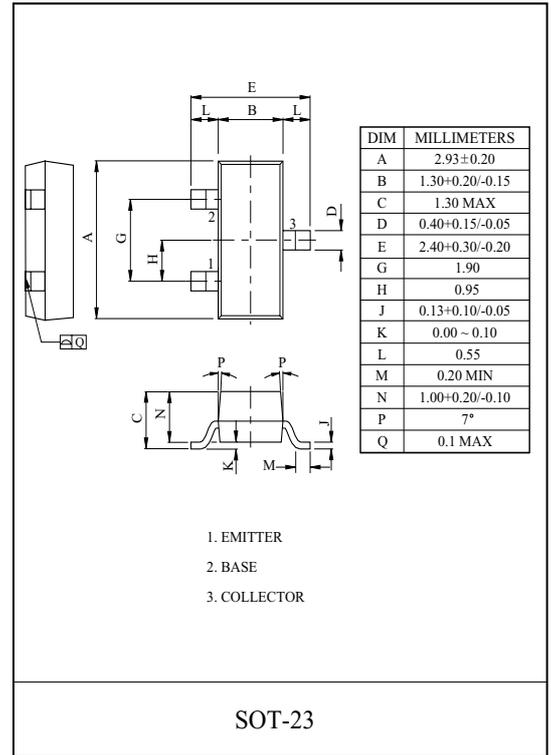
**FEATURE**

- Complementary to MMBTA06

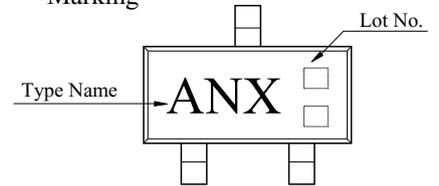
**MAXIMUM RATING (Ta=25 )**

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CBO}$ | -80     | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | -80     | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | -5      | V    |
| Collector Current           | $I_C$     | -500    | mA   |
| Emitter Current             | $I_E$     | 500     | mA   |
| Collector Power Dissipation | $P_C^*$   | 350     | mW   |
| Junction Temperature        | $T_j$     | 150     |      |
| Storage Temperature         | $T_{stg}$ | -55 150 |      |

\* : Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm.



**Marking**



**ELECTRICAL CHARACTERISTICS (Ta=25 )**

| CHARACTERISTIC                       | SYMBOL        | TEST CONDITION               | MIN. | TYP. | MAX.  | UNIT |
|--------------------------------------|---------------|------------------------------|------|------|-------|------|
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB}=-80V, I_E=0$         | -    | -    | -100  | nA   |
| Emitter Cut-off Current              | $I_{CEO}$     | $V_{CE}=-60V, I_B=0$         | -    | -    | -100  | nA   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$ | $I_C=-1mA, I_B=0$            | -80  | -    | -     | V    |
| DC Current Gain                      | $h_{FE(1)}$   | $V_{CE}=-1V, I_C=-10mA$      | 100  | -    | -     |      |
|                                      | $h_{FE(2)}$   | $V_{CE}=-1V, I_C=-100mA$     | 100  | -    | -     |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-100mA, I_B=-10mA$      | -    | -    | -0.25 | V    |
| Base-Emitter Voltage                 | $V_{BE}$      | $V_{CE}=-1V, I_C=-100mA$     | -    | -    | -1.2  | V    |
| Transition Frequency                 | $f_T$         | $V_{CE}=-1V, I_C=-100mA$     | 50   | -    | -     | MHz  |
| Collector Output Capacitance         | $C_{ob}$      | $V_{CB}=-10V, I_E=0, f=1MHz$ | -    | 14   | -     | pF   |

# MMBTA56

