

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(PNP)

FEATURES

* Power dissipation

Pcm: 0.2 W(Tamb=25°C)

* Collector current Icm:

-0.2

* Collector-base voltage

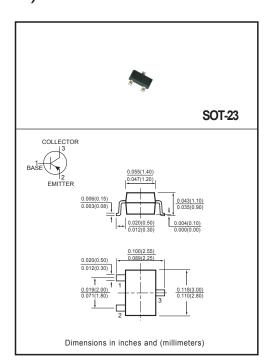
 $\begin{array}{ccc} V_{(BR)CBO}: & -60 & V \\ * \mbox{ Operating and storage junction temperature range} \\ T_{J,Tstg}: -55^{\circ}C \mbox{ to } +150^{\circ}C \end{array}$

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\,^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | MIN | MAX | UNITS |
|--|-----------------------|-----|------|-------|
| Collector-Base Breakdown Voltage (Ic= -100 μA, I∈=0) | V _(BR) CBO | -60 | - | V |
| Collector-Emitter Breakdown Voltage (Ic= -100 μA, Iв=0) | V(BR)CEO | -50 | - | V |
| Emitter-Base Breakdown Voltage (I _E = -100 μA, I _C =0) | V(BR)EBO | -6 | - | V |
| Collector Cut-Off Current (VcB= -60V, IE=0) | Ісво | - | -0.1 | μА |
| Emitter Cut-Off Current (VEB= -6V, Ic=0) | Ієво | - | -0.1 | μА |
| DC Current Gain(VcB= -6V, Ic= -1mA) | hre | 150 | 500 | - |
| DC Current Gain(VcE= -6V, Ic= -0.1mA) | | 90 | - | - |
| Collector-Emitter Saturation Voltage(Ic=-100 mA, I _B = -10mA) | VCE(sat) | - | -0.3 | V |
| Base-Emitter Saturation Voltage(Ic=-100 mA, Iв= -10mA) | V _{BE} (sat) | - | -1 | V |
| Tiansition Frequency(VcE= -6V, Ic= -10mA) | fτ | 180 | - | MHz |
| Collector Output Capacitance(VcE= -6V, IE=0, f=1MHz) | Cob | - | 5 | dB |
| Noise Figure(Vc= -6V, I= 0.3mA, f=100HZ, R_G =10K Ω) | NF | - | 20 | dB |

CLASSIFICATION OF hFE(1)

| RANK | E | F |
|---------|---------|---------|
| Range | 150~300 | 250~500 |
| Marking | M • E | M•E |

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