

**SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(PNP)**

FEATURES

- * Power dissipation
P_{CM} : □ 0.2 □ W(T_{amb}=25°C)
- * Collector current
I_{CM} : □ -0.2 □ A
- * Collector-base voltage
V_{(BR)CBO} : □ -60 □ V
- * Operating and storage junction temperature range
T_J, T_{stg}: -55°C to +150°C

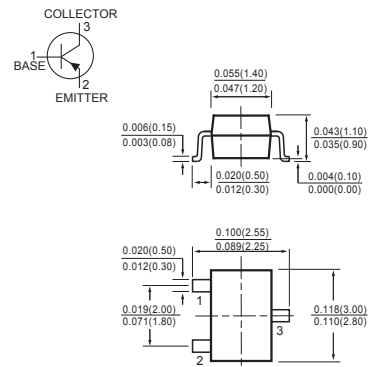
MECHANICAL DATA

- * 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 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

SOT-23



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

CHARACTERISTICS	SYMBOL	MIN	MAX	UNITS
Collector-Base Breakdown Voltage (I _C = -100 μA, I _E =0)	V _{(BR)CBO}	-60	-	V
Collector-Emitter Breakdown Voltage (I _C = -100 μA, I _B =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 (V _{CB} = -60V, I _E =0)	I _{CBO}	-	-0.1	μA
Emitter Cut-Off Current (V _{EB} = -6V, I _C =0)	I _{EBO}	-	-0.1	μA
DC Current Gain(V _{CB} = -6V, I _C = -1mA)	h _{FE}	150	500	-
DC Current Gain(V _{CE} = -6V, I _C = -0.1mA)		90	-	-
Collector-Emitter Saturation Voltage(I _C =-100 mA, I _B = -10mA)	V _{CE(sat)}	-	-0.3	V
Base-Emitter Saturation Voltage(I _C =-100 mA, I _B = -10mA)	V _{BE(sat)}	-	-1	V
Tiansition Frequency(V _{CE} = -6V, I _C = -10mA)	f _T	180	-	MHz
Collector Output Capacitance(V _{CE} = -6V, I _E =0, f=1MHz)	C _{ob}	-	5	dB
Noise Figure(V _{CE} = -6V, I _E = 0.3mA, f=100HZ, R _G =10KΩ)	NF	-	20	dB

CLASSIFICATION OF h_{FE}(1)

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

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