


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

FEATURES

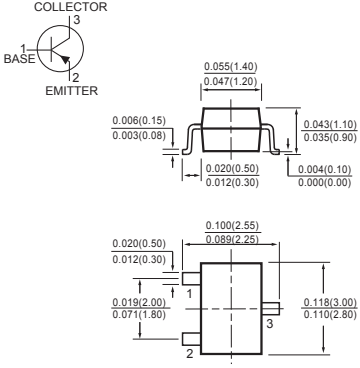
- * Power dissipation
P_{CM} : □ 0.2 □ W(T_{amb}=25°C)
- * Collector current
I_{CM} : □ -0.1 □ A
- * Collector-base voltage
V_{(BR)CBO} : □ -60 □ V
- * Operating and storage junction temperature range
T_J, T_{stg}: -55°C to +150°C

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



SOT-23



Dimensions in inches and (millimeters)

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%.

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

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector - Base Breakdown Voltage(I _c = -100 μA, I _E =0)	V _{(BR)CBO}	-60	-	-	V
Collector - Emitter Breakdown Voltage(I _c = -1mA, I _B =0)	V _{(BR)CEO}	-50	-	-	V
Emitter - Base Breakdown Voltage(I _E = -100 μA, I _C =0)	V _{(BR)EBO}	-5	-	-	V
Collector Cut - Off Current (V _{CB} = -60V, I _E =0)	I _{CBO}	-	-	-0.1	μA
Emitter Cut - Off Current(V _{EB} = -5V, I _C =0)	I _{EBO}	-	-	-0.1	μA
DC Current Gain(V _{CE} = -6V, I _C = -1mA)	h _{FE}	90	-	600	-
Collector - Emitter Saturation Voltage(I _C =-100 mA, I _B = -10mA)	V _{CE(sat)}	-	-	-0.3	V
Base - Emitter Voltage(I _C =-1mA, V _{CE} = -6mA)	V _{BE}	-	-	-0.68	V
Tiansition Frequency(V _{CE} = -6V, I _C = -10mA)	f _t	180	-	-	MHz

CLASSIFICATION OF h_{FE}

Marking	M4	M5	M6	M7
Range	90-180	135-270	200-400	300-600

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