

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

FEATURES

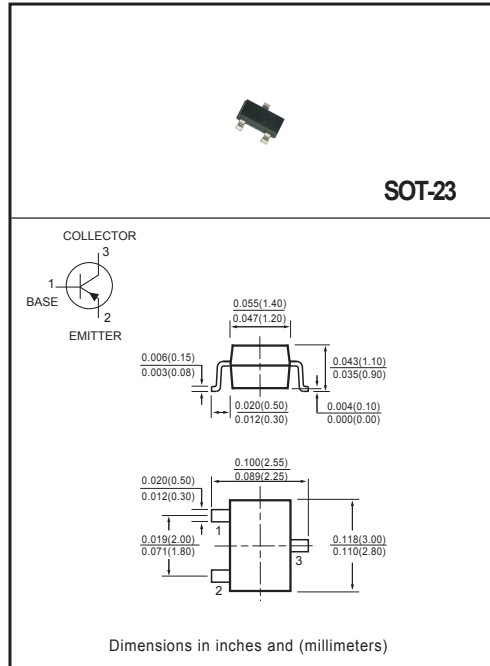
- * High breakdown voltage

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
- * Marking: M

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%.



MAXIMUM RATINGS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	VALUE	UNITS
Collector-Base Voltage	V _{CB0}	-55	V
Collector-Emitter Voltage	V _{CE0}	-50	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current-Continuous	I _C	-150	mA
Total Device Dissipation	P _D	200	mW
Junction and Storage Temperature	T _J , T _{stg}	-55-125	°C

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

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

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Collector-base breakdown voltage (I _C = -10μA, I _E = 0)	V _{(BR)CBO}	-55	-	-	V
Collector-emitter breakdown voltage (I _C = -1mA, I _B = 0)	V _{(BR)CEO}	-50	-	-	V
Emitter-base breakdown voltage (I _E = -10μA, I _C = 0)	V _{(BR)EBO}	-5	-	-	V
Collector cut-off current (V _{CB} = -35V, I _E = 0)	I _{CBO}	-	-	-0.1	μA
Emitter cut-off current (V _{EB} = -4V, I _C = 0)	I _{EBO}	-	-	-0.1	μA
DC current gain (V _{CE} = -6V, I _C = -1mA)	h _{FE}	200	-	400	-
Collector-emitter saturation voltage (I _C = -50mA, I _B = -5mA)	V _{CE(sat)}	-	-	-0.5	V
Base-emitter saturation voltage (I _C = -50mA, I _B = -5mA)	V _{BE(sat)}	-	-	-1.0	V
Transition frequency (V _{CE} = -6V, I _C = -10mA)	f _T	-	180	-	MHZ
Collector output capacitance (V _{CB} = -6V, I _E = 0, f=1MHz)	C _{ob}	-	4	-	pF

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