

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

FEATURES

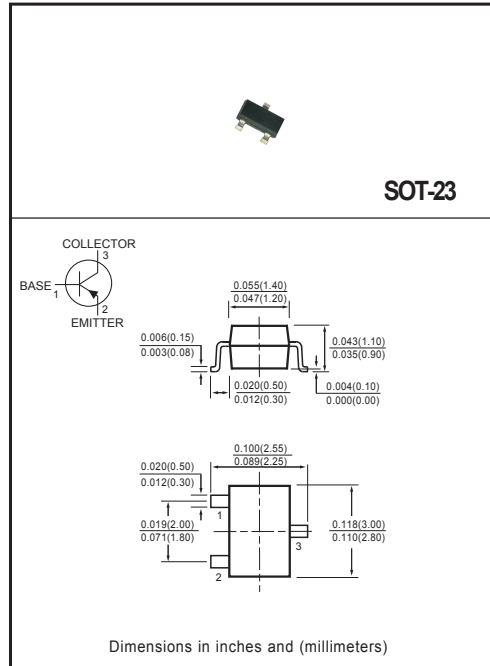
- * Power dissipation
 $P_{CM} : 0.2 \text{ W (} T_{amb}=25^{\circ}\text{C)}$
- * Collector current
 $I_{CM} : 0.8 \text{ A}$
- * Collector-base voltage
 $V_{(BR)CBO} : 35 \text{ V}$
- * Operating and storage junction temperature range
 $T_{J}, T_{stg} : -55^{\circ}\text{C to } +150^{\circ}\text{C}$

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%.



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

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage ($I_C = 100\mu\text{A}, I_E = 0$)	$V_{(BR)CBO}$	35	-	-	V
Collector-emitter breakdown voltage ($I_C = 10\text{mA}, I_B = 0$)	$V_{(BR)CEO}$	30	-	-	V
Emitter-base breakdown voltage ($I_E = 10\mu\text{A}, I_C = 0$)	$V_{(BR)EBO}$	5	-	-	V
Collector cut-off current ($V_{CB} = 35\text{V}, I_E = 0$)	I_{CBO}	-	-	0.1	μA
Emitter cut-off current ($V_{EB} = 5\text{V}, I_C = 0$)	I_{EBO}	-	-	0.1	μA
DC current gain ($V_{CE} = 1\text{V}, I_C = 100\text{mA}$)	$h_{FE(1)}$	100	-	320	-
Collector-emitter saturation voltage ($I_C = 500\text{mA}, I_B = 50\text{mA}$)	$V_{CE(sat)}$	-	-	0.5	V
Transition frequency ($V_{CE} = 5\text{V}, I_C = 10\text{mA}$)	f_T	-	120	-	MHz
Collector output capacitance ($V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$)	C_{ob}	-	13	-	pF

CLASSIFICATION OF $h_{FE(1)}$

RANK	Q	Y
Range	100-200	160-320
Marking	FAO	FAY

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