

SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(PNP)

FEATURES

- * Power dissipation
 $P_{CM} : \square \quad 0.2 \square \quad W \quad (T_{amb}=25^{\circ}C)$
- * Collector current
 $I_{CM} : \square \quad -0.15 \square \quad A$
- * Collector-base voltage
 $V_{(BR)CBO} : \square \quad -60 \square \quad V$
- * Operating and storage junction temperature range
 $T_J, T_{stg} : -55^{\circ}C \text{ to } +150^{\circ}C$

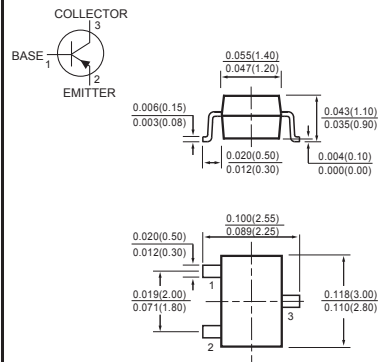
MECHANICAL DATA

- * 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 (@ $T_A = 25^{\circ}C$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Collector-base breakdown voltage ($I_C = -50\mu A, I_E = 0$)	$V_{(BR)CBO}$	-60	-	-	V
Collector-emitter breakdown voltage ($I_C = -1mA, I_B = 0$)	$V_{(BR)CEO}$	-50	-	-	V
Emitter-base breakdown voltage ($I_E = -50\mu A, I_C = 0$)	$V_{(BR)EBO}$	-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 ($V_{CE} = -6V, I_C = -1mA$)	h_{FE}	120	-	560	-
Collector-emitter saturation voltage ($I_C = -50mA, I_B = -5mA$)	$V_{CE(sat)}$	-	-	-0.5	V
Transistion frequency ($V_{CE} = -12V, I_C = -2mA, f = 30MHz$)	f_T	120	-	-	MHz

CLASSIFICATION OF h_{FE}

RANK	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

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