

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(NPN)

FEATURES

* Power dissipation

Рсм:

0.2

W(Tamb=25°C)

* Collector current Ісм:

0.15

* Collector-base voltage

V_(BR)CBO:

* Operating and storage junction temperature range T_J,Tstg: -55°Cto+150°C

MECHANICAL DATA

* Case: Molded plastic

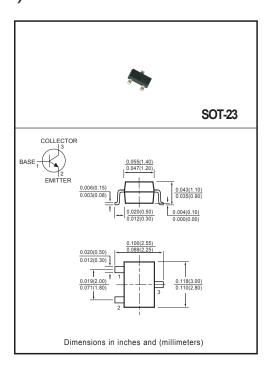
* Epoxy: UL 94V-O rate flame retardant

* 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%.



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

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Collector-base breakdown voltage (I _C = 50μA, 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 = 50μA, I _C =0)	V _{(BR)EBO}	7	-	-	V
Collector cut-off current (V _{CB} = 60V, I _E =0)	I _{CBO}	-	-	0.1	μА
Emitter cut-off current (V _{EB} = 7V, I _C =0)	I _{EBO}	-	-	0.1	μА
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)}	-	-	0.4	V
Transition frequency (V _{CE} = 12V, I _C = 2mA, f= 100MHz)	fT	150	-	-	MHz

CLASSIFICATION OF hFE(1)

RANK	Q	R	Y
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

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