

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(NPN)

FEATURES

* Power dissipation

0.225 W (Tamb=25°C)

Pcm:

* Collector current
Icm:

0.5 A

* Collector-base voltage

V_(BR)CBO: 50 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

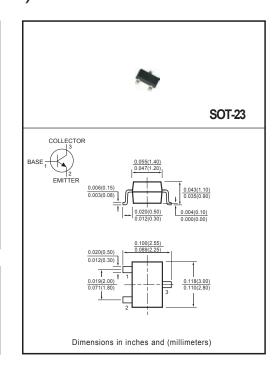
* Mounting position: Any * Weight: 0.008 gram

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)



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CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage (I _C = 10μA, I _E =0)	V _{(BR)CBO}	50	-	-	V
Collector-emitter breakdown voltage (I _C = 10mA, I _B =0)	V _{(BR)CEO}	45	-	-	V
Emitter-base breakdown voltage (I _E = 10μA, I _C =0)	V _{(BR)EBO}	5	-	-	V
Collector cut-off current (V _{CB} = 20V, I _E =0)	I _{CBO}	-	-	0.1	μА
Collector cut-off current (V _{CE} = 20V, I _E =0)	I _{CEO}	-	-	0.1	μА
Collector cut-off current (V _{EB} = 5V, I _C =0)	I _{EBO}	-	-	10	μА
DC current gain (V _{CE} = 1V, I _C = 100mA)	h _{FE}	100	-	600	-
Collector-emitter saturation voltage (I _C = 500mA, I _B = 50mA)	V _{CE(sat)}	-	-	0.62	V
Base-emitter voltage (I _C = 500mA, V _{CE} = 1V)	V _{BE(on)}	-	-	1.2	V

MARKING			
Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".			

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