



SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(PNP)

FEATURES

* Power dissipation

0.33 W (Tamb=25°C) Рсм:

* Collector current

-0.8 A Ісм: * Collector-base voltage V(BR)CBO: -60

* Operating and storage junction temperature range

T_J,Tstg: -55°C to +150°C

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-O rate flame retardant

* Lead: MIL-STD-202E method 208C guaranteed

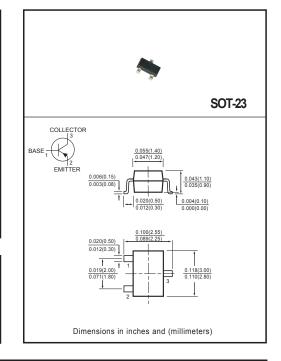
* Mounting position: Any * Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase , half wave, 60Hz, resistive or inductive load.

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

For capacitive load, derate current by 20%.



CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage (I _C = -10μA, I _E =0)	V _{(BR)CBO}	-60	-	-	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} = -45V, I _E =0)	I _{CBO}	-	-	-0.02	μА
Collector cut-off current (V _{EB} = -4V, I _C =0)	I _{EBO}	-	-	-0.02	μА
DC current gain (V _{CE} = -10V, I _C = -0.1mA)	h _{FE}	35	-	-	-
DC current gain (V _{CE} = -1V, I _C = -10mA)		75	-	-	-
DC current gain (V _{CE} = -1V, I _C = -100mA)		100	-	250	-
DC current gain (V _{CE} = -2V, I _C = -500mA)		35	-	-	-
Collector-emitter saturation voltage (I _C = -100mA, I _B = -10mA)	V _{CE(sat)}	-	-	-0.3	V
Collector-emitter saturation voltage (I _C = -500mA, I _B = -50mA)		-	-	-0.7	V
Base-emitter saturation voltage (I _C = -100mA, I _B = -10mA)	V _{BE(sat)}	-	-	-1.25	V
Base-emitter saturation voltage (I _C = -500mA, I _B = -50mA)		-	-	-2	V
Transition frequency (V _{CE} = -10V, I _C = -20mA, f=100MHz)	fr	100	-	-	MHz
Output capacitance (V _{CB} = -10V, I _E = 0, f=1MHz)	Cob	-	-	18	РF
Input capacitance (V _{EB} = -0.5V, I _E = 0, f=1MHz)	Cib	-	-	80	РF
Noise figure (V _{CE} = -5V, I _E = -0.2mA, f=1kHz, Δ f=200Hz, RG=1K Ω)	NF	-	-	10	dB

Marking				
Note 1: "Fully ROHS compliant"	"100% Sn plating (Ph-free)"			

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