

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(NPN)

FEATURES

* Power dissipation

Pcm:

0.2 W (Tamb=25°C)

* Collector current

0.15 mA

* Collector-base voltage

V(BR)CBO: 60 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

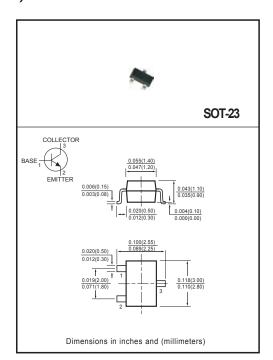
* Mounting position: Any * Weight: 0.008 gram

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 (0 TA = 25°C unless otherwise noted)

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CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage (I _C = 100μA, I _E =0)	V _{(BR)CBO}	60	-	-	V
Collector-emitter breakdown voltage (I _C = 0.1mA, I _B =0)	V _{(BR)CEO}	50	-	-	V
Collector cut-off current (V _{CB} = 60V, I _E =0)	I _{CBO}	-	-	0.1	μА
Collector cut-off current (V _{CB} = 50V, I _B =0)	ICEO	-	-	0.1	μА
Emitter cut-off current (V _{EB} = 5V, I _C =0)	I _{EBO}	-	-	0.1	μА
DC current gain (V _{CE} = 6V, I _C = 2mA)	h _{FE(1)}	130	-	400	-
Collector-emitter saturation voltage (I _C = 100mA, I _B = 10mA)	V _{CE(sat)}	-	-	0.25	V
Base-emitter voltage (I _C = 100mA, I _B = 10mA)	V _{BE(sat)}	-	-	1	V
Transition frequency (V _{CE} = 10V, I _C = 1mA, f= 30MHz)	f _T	80	-	-	MHz

CLASSIFICATION OF hFE(1)

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RANK	L	Н		
Range	130 - 200	200 - 400		
DEVICE MARKING	· · ·			
DEVICE MARKING	HF			

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

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