

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(PNP)

FEATURES

* Power dissipation

Рсм:

0.2 W (Tamb=25°C)

* Collector current

0.7 A

* Collector-base voltage

V_{(BR)CBO}: 30 V

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

MECHANICAL DATA

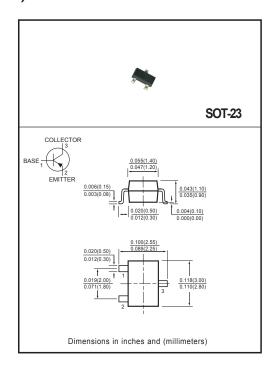
* Case: Molded plastic

* 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, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



ELECTRICAL CHARACTERISTICS (0 TA = 25 0 C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage (I _C = 100μA, I _E =0)	V _{(BR)CBO}	30	-	-	V
Collector-emitter breakdown voltage (I _C = 1mA, I _B =0)	V _{(BR)CEO}	25	-	-	٧
Emitter-base breakdown voltage (I _E = 100μA, I _C =0)	V _{(BR)EBO}	5	-	-	V
Collector cut-off current (V _{CB} = 30V, I _E =0)	I _{CBO}	-	-	0.1	μА
Emitter cut-off current (V _{EB} = 5V, I _C =0)	I _{EBO}	-	-	0.1	μА
DC current gain (V _{CE} = 1V, I _C = 100mA)	h _{FE(1)} *	110	-	400	-
DC current gain (V _{CE} = 1V, I _C = 700mA)	h _{FE(2)} *	50	-	-	-
Collector-emitter saturation voltage (I _C = 700mA, I _B = 70mA)	V _{CE(sat)} *	-	-	0.6	٧
Base-emitter voltage (V _{CE} = 6V, I _C = 10mA)	V _{BE(on)} *	0.6	-	0.7	V
Transition frequency (V _{CE} = 6V, I _C = 10mA)	f _T	140	-	-	MHz

^{*} Pulse teat: Pulse width ≤350μs, Duty Cycle ≤2%.

CLASSIFICATION OF hFE

CLASSIFICATION OF TIFE					
RANK	DV1	DV2	DV3	DV4	DV5
Range	110-180	135-220	170-270	200-320	250-400

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