

SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(NPN)

FEATURES

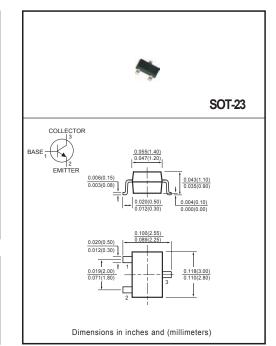
- * Power dissipation 0.225 W (Tamb=25°C) Note1 Рсм: * Collector current А
- Ісм: 0.1
- * Collector-base voltage 30
- V VCBO : * Operating and storage junction temperature range T_J,Tstg: -55°C to +150°C

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%.



1K

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

CHARACTERISTICS	SYMBOL	MIN	MAX	UNITS
Collector-base breakdown voltage (I _C = 10 μ A, I _E =0)	V _{CBO}	30	-	V
Collector-emitter breakdown voltage (I _C = 10mA, I _B =0)	VCEO	30	-	V
Emitter-base breakdown voltage (I _E = 10 μ A, I _C =0)	V _{EBO}	6	-	V
Collector cut-off current (V _{CB} = 30V, I_E =0)	I _{CBO}	-	0.1	μΑ
Collector cut-off current (V _{CE} = 30V, I_B =0)	ICEO	-	0.1	μA
Emitter cut-off current (V _{EB} = 5V, I_C =0)	I _{EBO}	-	0.1	μΑ
DC current gain (V _{CE} = 5V, I _C = 2mA)	h _{FE(1)}	200	450	-
Collector-emitter saturation voltage (I _C = 100mA, I _B = 5mA)	V _{CE(sat)}	-	0.5	V
Base-emitter saturation voltage (I_C = 100mA, I_B = 5mA)	V _{BE(sat)}	-	1.1	V
Transition frequency (V _{CE} = 5V, I _C = 10mA, f= 100MHz)	fT	100	-	MHz

BC848B

2007-3

Notes: 1. Transistor mounted on an FR4 Printed-circuit board.

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

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