

SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(PNP)

FEATURES

- * Power dissipation
P_{CM} : 0.225 W (T_{amb}=25°C) Note1
- * Collector current
I_{CM} : -0.1 A
- * Collector-base voltage
V_{(BR)CBO} : -50 V
- * Operating and storage junction temperature range
T_J, T_{stg}: -55°C to +150°C

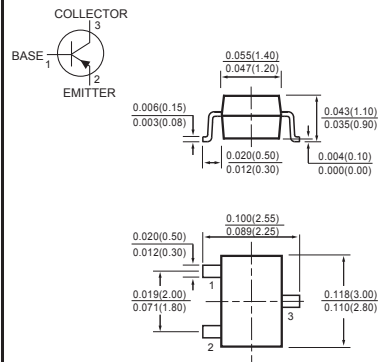
MECHANICAL DATA

- * 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%.

SOT-23



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

CHARACTERISTICS	SYMBOL	MIN	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} = -45V, I _E =0)	I _{CBO}	-	-0.1	μA
Collector cut - off current (V _{CE} = -40V, I _B =0)	I _{CEO}	-	-0.1	μA
Emitter cut - off current (V _{EB} = -5V, I _C =0)	I _{EBO}	-	-0.1	μA
DC current gain (V _{CE} = -5V, I _C = -2mA)	h _{FE(1)}	420	800	-
Collector - emitter saturation voltage (I _C = -10mA, I _B = -5mA)	V _{CE(sat)}	-	-0.5	V
Base - emitter saturation voltage (I _C = -100mA, I _B = -10mA)	V _{BE(sat)}	-	-1.1	V
Transition frequency (V _{CE} = -5V, I _C = -10mA, f= 100MHz)	f _T	100	-	MHz

DEVICE MARKING

BC857C	3G
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Notes: 1. Transistor mounted on an FR4 Printed-circuit board.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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