

**SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(PNP)**

FEATURES

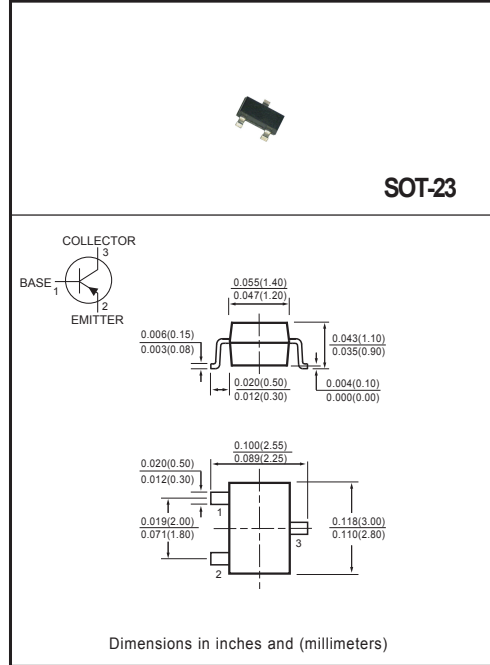
- * Power dissipation
P_{CM} : 200 mW (T_{amb}=25°C)
- * Collector current
I_{CM} : 500 mA
- * Collector-base voltage
V_{(BR)CBO} : 30 V
- * Operating and storage junction temperature range
T_{J, Tstg}: -55°C to +150°C

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 (@ TA = 25°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	-	-	V
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	μA
Emitter cut-off current (V _{EB} = -4V, I _C =0)	I _{EBO}	-	-	-0.1	μA
DC current gain (V _{CE} = -1V, I _C = -100mA)	h _{FE}	100	-	600	-
DC current gain (V _{CE} = -1V, I _C = -500mA)		40	-	-	-
Collector-emitter saturation voltage (I _C = -500mA, I _B = -50mA)	V _{CE(sat)}	-	-	-0.7	V
Base - emitter voltage (V _{CE} = -1V, I _C = -500mA)	V _{BE}	-	-	1.2	V
Transition frequency (V _{CE} = -5V, I _C = -10mA, f= 50MHz)	f _T	-	100	-	MHz
Collector output capacitance (V _{CB} = -10V, I _E = 0, f= 1MHz)	C _{ob}	-	12	-	pF

CLASSIFICATION OF h_{FE}(1)

RANK	16	25	40
Range	100-250	160-400	250-600
Marking	5E	5F	5G

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