

Features

- Halogen Free. "Green" Device (Note 1) •
- Moisture Sensitivity Level 1 •
- Epoxy Meets UL 94 V-0 Flammability Rating •
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS ٠ Compliant. See Ordering Information)

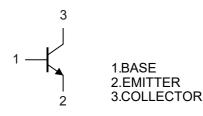
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C •
- Storage Temperature Range: -55°C to +150°C •
- Thermal Resistance: 625°C/W Junction to Ambient

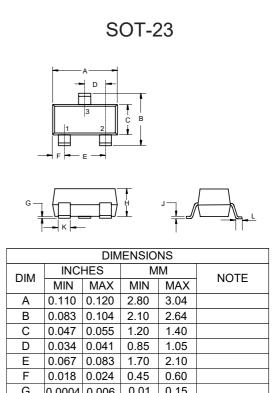
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	7	V
Continuous Collector Current	Ι _C	150	mA
Power Dissipation	PD	200	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

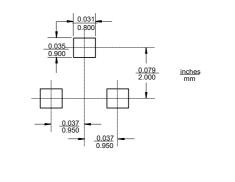


NPN Silicon Epitaxial Transistors



0.01 0.15 G 0.0004 0.006 Н 0.035 0.043 0.90 1.10 J 0.003 0.007 0.08 0.18 0.012 0.020 0.30 0.51 Κ 0.007 0.020 L 0.20 0.50

Suggested Solder Pad Layout





Electrical Characteristics @ $T_A\!\!=\!\!25^\circ\!C$ Unless Otherwise Specified

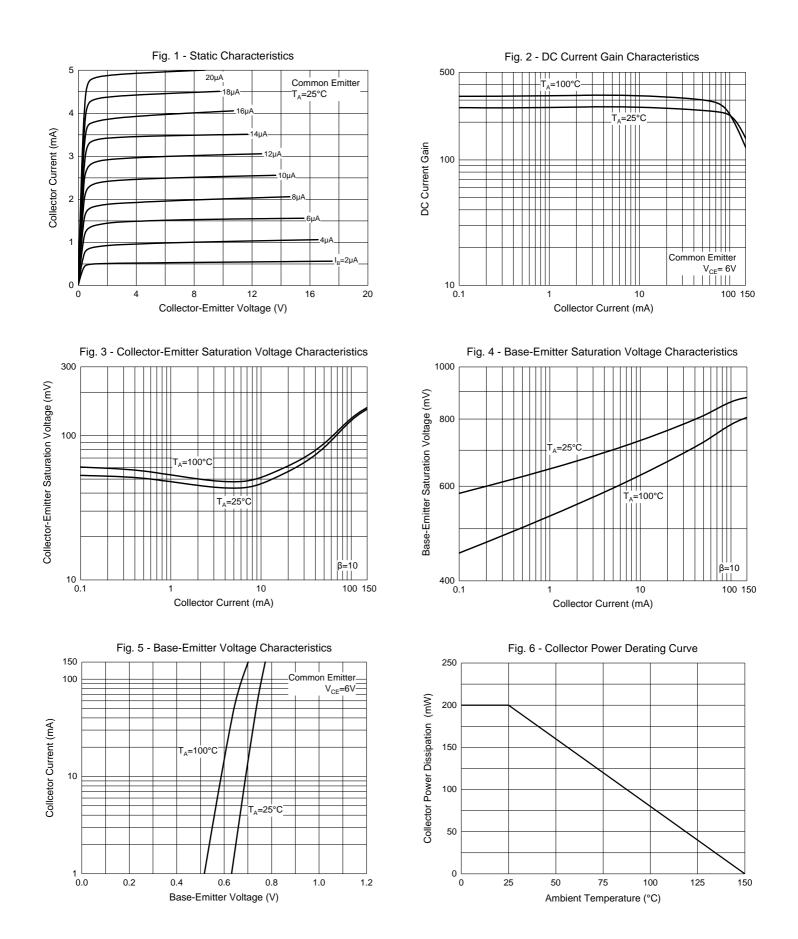
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	Ι _C =50μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	50			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	7			V	Ι _E =50μΑ, Ι _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =60V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V _{EB} =7V, I _C =0
DC Current Gain	h _{FE}	120		560		V _{CE} =6V, I _C =1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	150			MHz	V _{CE} =12V,I _C =2mA,f=100MHz

Classification of \mathbf{h}_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS



Curve Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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