

Features

- Low V_{CE(sat)} Ideal for Low-Voltage Operation
- 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 Compliant. See Ordering Information)

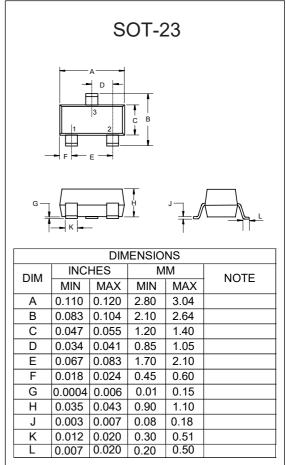
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

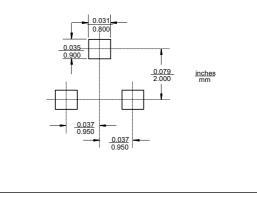
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-32	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	Ι _C	-500	mA
Power Dissipation	PD	200	mW

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

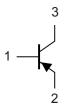
PNP Silicon Epitaxial Transistors



Suggested Solder Pad Layout



Internal Structure







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

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-40			V	Ι _C =-100μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-32			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-1	μA	V _{CB} =-20V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-1	μA	V_{EB} =-4V, I _C =0
DC Current Gain	h _{FE}	82		390		V _{CE} =-3V, I _C =-10mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T		200		MHz	V _{CE} =-5V,I _C =-20mA,f=100MHz
Collector Output Capacitance	C _{ob}		7		pF	V _{CB} =-10V,I _E =0,f=1MHz

Classification of h_{FE}

Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	HP	HQ	HR



Ordering Information

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

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