

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 Compliant. See Ordering Information)

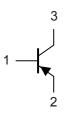
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 417°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-30	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-800	mA
Power Dissipation	P _D	300	mW

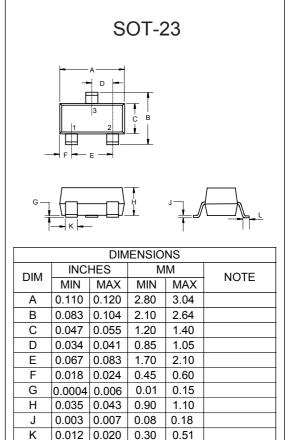
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



1.BASE
2.EMITTER
3.COLLECTOR

PNP Silicon General Purpose Transistors



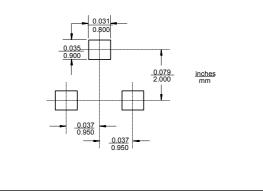
Suggested Solder Pad Layout

0.20

0.50

0.007 0.020

L





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

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-30			V	Ι _C =-100μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-25			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	Ι _E =-100μΑ, Ι _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-25V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V _{EB} =-4V, I _C =0
DC Current Gain	h _{FE(1)}	100		630		V _{CE} =-1V, I _C =-100mA
DC Current Gain	h _{FE(2)}	60				V _{CE} =-1V, I _C =-300mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.7	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V _{BE}			-1.2	V	V _{CE} =-1V, I _C =-300mA
Transition Frequency	f _T		100		MHz	I _C =-10mA, V _{CE} =-5V, f=50MHz
Collector Output Capacitance	C _{ob}		12		pF	V _{CB} =-10V,I _E =0,f=1MHz

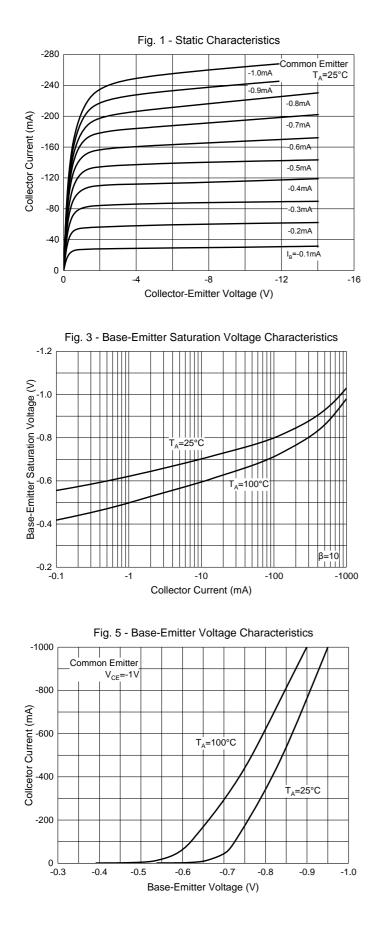
Classification of $h_{FE(1)}$

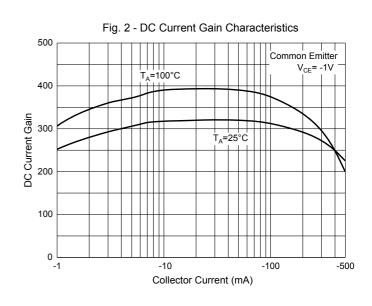
Rank	16	25	40
Range	100-250	160-400	250-630
Marking	5E	5F	5G

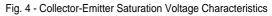
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Curve Characteristics







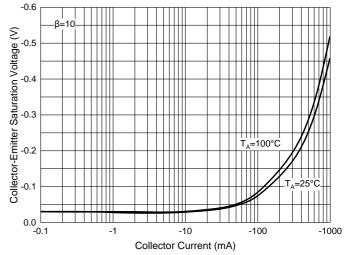
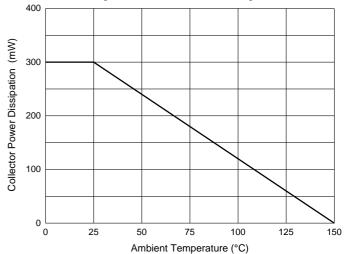


Fig. 6 - Collector Power Derating Curve





Ordering Information

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

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