

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)

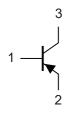
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -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}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-500	mA
Power Dissipation	P _D	200	mW

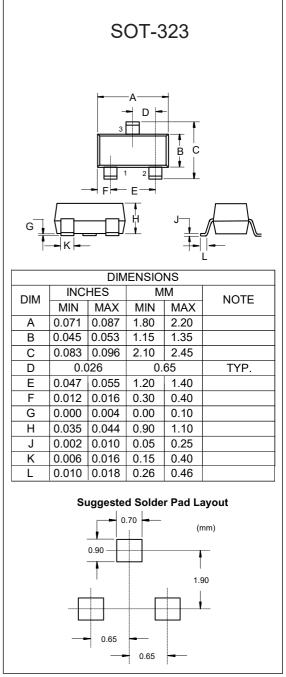
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



1.BASE 2.EMITTER 3.COLLECTOR

PNP Silicon General Purpose Transistors





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

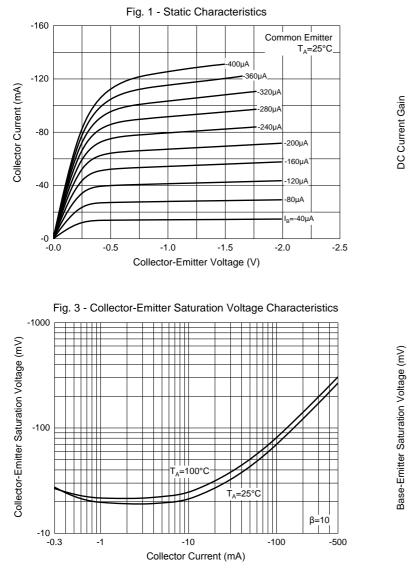
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	Ι _C =-10μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-45			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	Ι _E =-1μΑ, Ι _C =0
Collector Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-20V, I _E =0
Collector Cutoff Current	I _{CEO}			-0.2	μA	V _{CE} =-20V, I _B =0
Emitter Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-5V, I_{C} =0
DC Current Gain	h _{FE(1)}	100		600		V _{CE} =-1V, I _C =-100mA
	h _{FE(2)}	40				V _{CE} =-1V, I _C =-500mA
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 =-500mA
Transition Frequency	f _T	80			MHz	V _{CE} =-5V, I _C =-10mA, f=100MHz
Collector Capacitance	C _c			10	pF	V _{CB} =-10V, I _E =0, f=1MHz

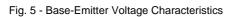
Classification of $h_{FE(1)}$

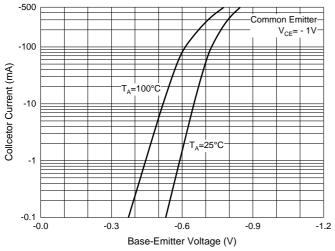
Rank	BC807-16W	BC807-25W	BC807-40W
Range	100-250	160-400	250-600
Marking	5A	5B	5C



Curve Characteristics







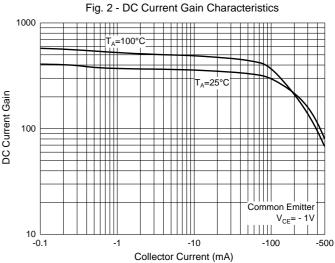


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

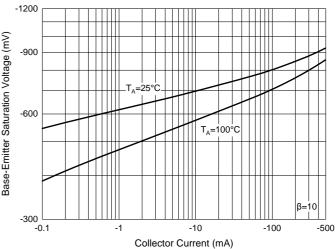
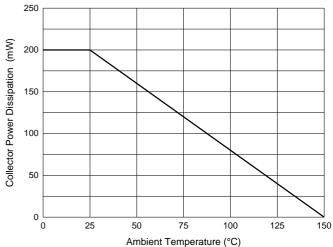


Fig. 6 - Collector Power Derating Curve





Ordering Information

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

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