

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)

PNP Small Signal Transistor 300mW

Maximum Ratings

Operating Junction Temperature Range: -55°C to +150°C

Storage Temperature Range: -55°C to +150°C

• Thermal Resistance: 417°C/W Junction to Ambient

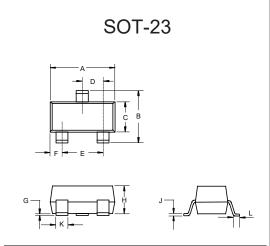
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-500	mA
Peak Collector Current	I _{CM}	-1000	mA
Peak Base Current	I _{BM}	-200	mA
Collector Power Dissipation	P _C	300	mW

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

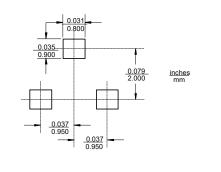


Marking: BC807-16: 5A BC807-25: 5B BC807-40: 5C



DIMENSIONS					
DIM INCH		HES N		М	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
Ĺ	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

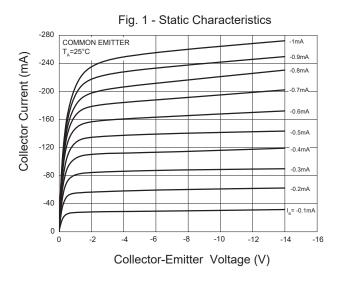
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	I _C =-10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-45			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-1μΑ, I _C =0
Collector Cutoff Current	I _{CBO}			-0.1	μA	V_{CB} =-45V, I_{E} =0
Collector Cutoff Current	I _{CEO}			-0.2	μA	V _{CE} =-40V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μΑ	V _{EB} =-4V, I _C =0
DC Current Gain	h _{FE1}	100		600		V _{CE} =-1V, I _C =-100mA
	h _{FE2}	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 Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-500mA, I _B =-50mA
Transition Frequency	f _T	100			MHz	V _{CE} =-5V, I _C =-10mA, f=100MHz

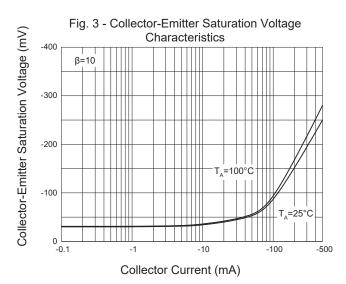
CLASSIFICATION OF here (1)

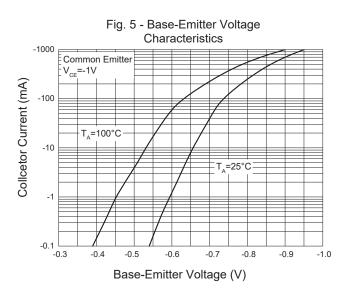
Rank	BC807-16	BC807-25	BC807-40
Range	100-250	160-400	250-600

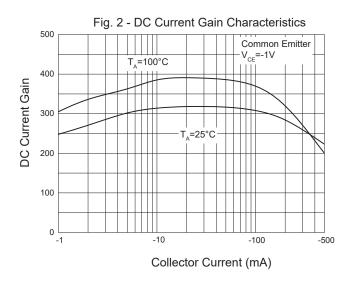


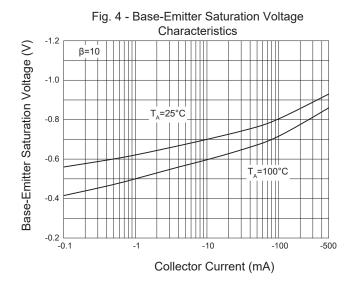
Curve Characteristics

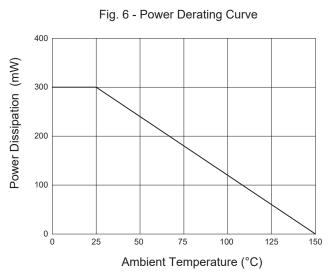














Ordering Information

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

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