

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- 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)



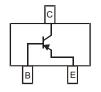
Maximum Ratings

- 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

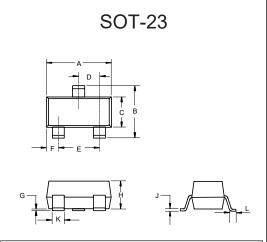
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-500	mA
Peak Collector Current	I _{CM}	-1000	mA
Collector Power Dissipation	Pc	300	mW

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

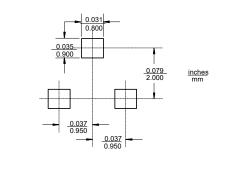


Marking:	
BC807-16HE3:	5A
BC807-25HE3:	5B
BC807-40HE3:	5C



DIMENSIONS					
DIM	INCHES M		М	NOTE	
	MIN	MAX	MIN	MAX	NOTE
A	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	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

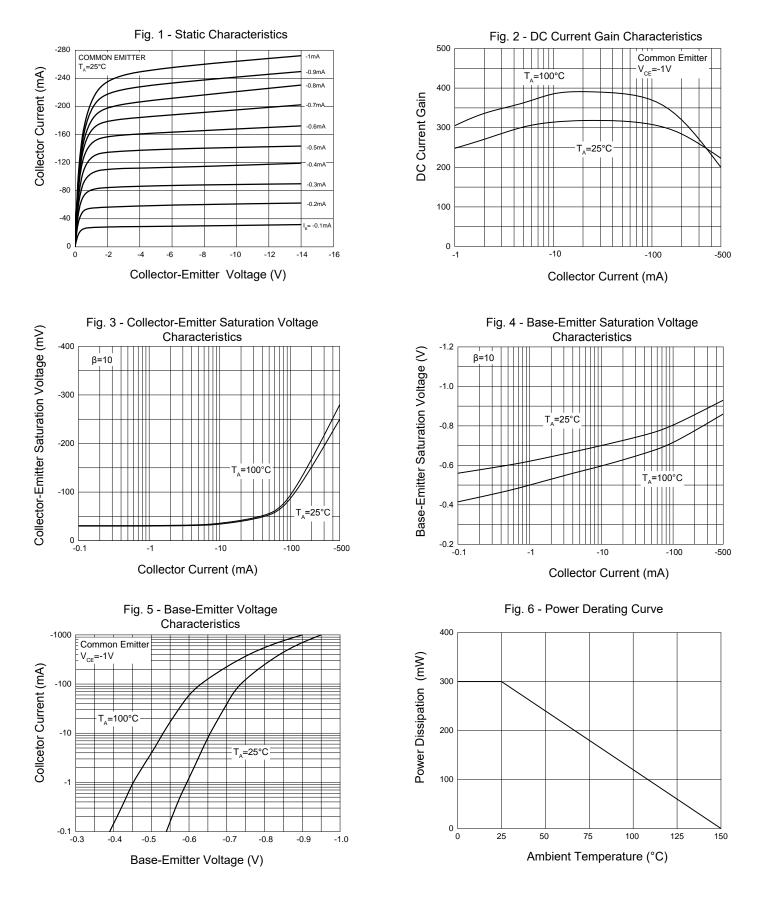
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	I _C =-10μΑ, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-45			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	Ι _E =-1μΑ, Ι _C =0
Collector Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-45V, I _E =0
Collector Cutoff Current	I _{CEO}			-0.2	μA	V_{CB} =-40V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	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 hFE (1)

Rank	BC807-16HE3	BC807-25H3	BC807-40H3	
Range 100-250		160-400	250-600	



Curve Characteristics





Ordering Information

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

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