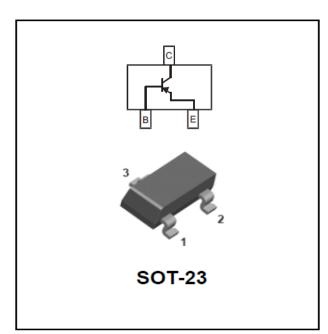




PNP General Purpose Amplifier



Features

- •Capable of 0.3Watts(TA=25°C) of Power Dissipation
- ●Collector current -0.5A
- •Collector-base Voltage -50V
- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- •Moisture Sensitivity Level 1
- •Device Marking:

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

■ Maximum Rating

• Maximum Rating						
ltem	Symbol	Unit	Value			
Collector-Emitter Voltage	V _{CEO}	V	-45			
Emitter –Base Voltage	V _{EBO}	V	-5			
Collector Current	I _C	mA	-500			
Collector Power Dissipation	Pc	mW	300			
Operation Junction Temperature	Tj	℃	-55 to +150			
Storage Temperature	T _{stg}	°C	-55 to +150			
Thermal Resistance From Junction To Ambient	Reja	°C/W	417			

■ Off Characteristics

- On Ondracteristics						
Item	Symbol	Unit	Conditions	MIN	MAX	
Collector-Emitter Voltage*	V_{CEO}	V	I _C =-10mAdc, I _B =0	-45		
Collector-Base Voltage	V _{CBO}	V	I _C =-10uAdc, I _E =0	-50		
Emitter-Base Voltage	V _{EBO}	V	I _E =1.0uAdc, I _C =0	-5.0		
Emitter-base Cut-off Current	I _{EBO}	uAdc	V _{EB} =-4.0Vdc, I _C =0		-0.1	
Collector-base Cut-off Current	I _{CBO}	uAdc	V _{CB} =-45Vdc, I _E =0		-0.1	



BC807-16 THRU BC807-40

■ On Characteristics

Item		Symbol	Unit	Conditions	Min	Max
	BC807-16				100	250
DC Current Gain	BC807-25	h _{FE}		I _C =-100mAdc, V _{CE} =-1.0Vdc	160	400
	BC807-40				250	600
DC Current Gain		h _{FE}		I _C =-500mAdc, V _{CE} =-1.0Vdc	40	
Collector-Emitter Saturation Voltage		V _{CE(sat)}	V	I _C =-500mAdc, I _B =-50mAdc		-0.7
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	V	I _C =-500mAdc, I _B =-50mAdc		-1.2

■ Small-signal Characteristics

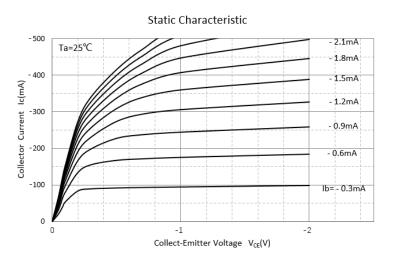
Item	Symbol	Unit	Conditions	Min	Тур	Max
Transition frequency	f _T	MHz	I_C =-10mAdc, V_{CE} =-5.0Vdc, f=100MHz	100		
Collector-base output capacitance	Cob	pF	VCB=-10V,f=1MHz		10	

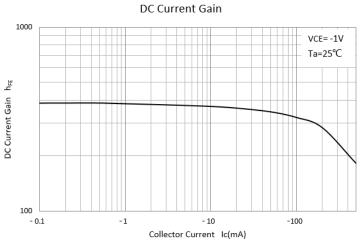
■ Ordering Information (Example)

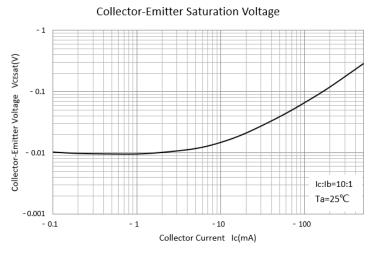
2 ordering intermediation (Example)							
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
BC807-16- Thru BC807-40	F2	Approximate 0.008	3000	30000	120000	7" reel	

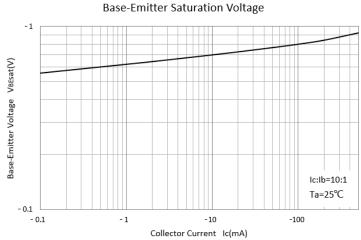
BC807-16 THRU BC807-40

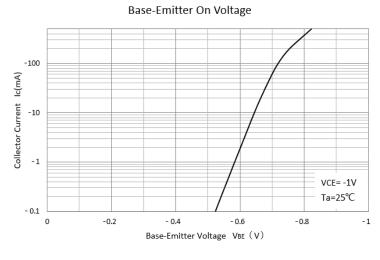
■ Characteristics (Typical)

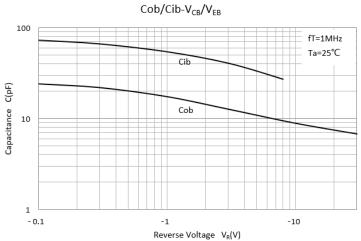






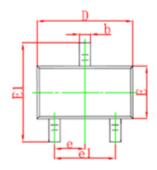


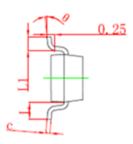


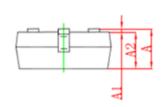




■SOT-23 Package Outline Dimensions

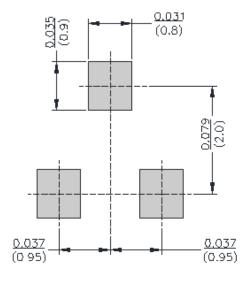






6-1-1	Dimensions In	n Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1. 150	0. 035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1. 050	0. 035	0.041	
b	0.300	0.500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3, 000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0.055	
E1	2. 250	2. 550	0.089	0.100	
e	0.95	OTYP	0.03	7TYP	
el	1. 800	2.000	0. 071	0.079	
L	0.55	OREF	0.02	2REF	
L1	0.300	0. 500	0.012	0.020	
Θ	0°	8°	0°	8°	

■SOT-23 Soldering Footprint





BC807-16 THRU BC807-40

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