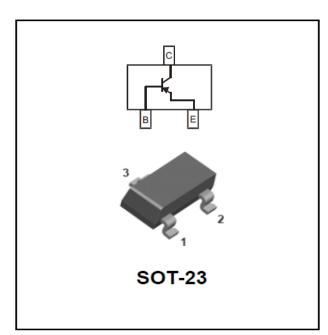




PNP General Purpose Amplifier



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}	℃	-55 to +150				
Thermal Resistance From Junction To Ambient	Reja	°C/W	417				

Off Characteristics

• On Characteristics						
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

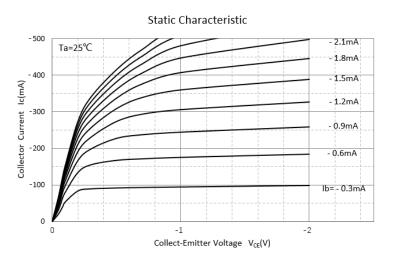
Item	Symbol	Unit	Conditions	Min	Тур	Max
Transition frequency	f _T	MHz	I_C =-10mAdc, V_{CE} =-5.0Vdc, f=100MHz	100		
Collector-base output capacitance	Cob	pF	VCB=-10V,f=1MHz		10	

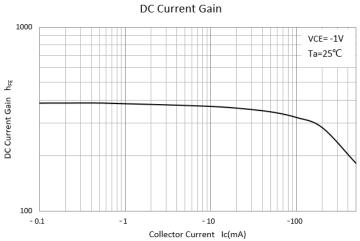
■ Ordering Information (Example)

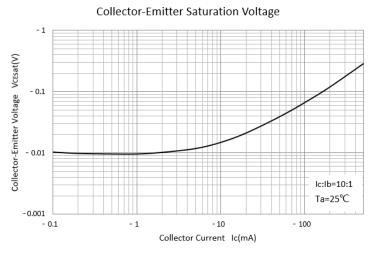
2 ordering intermediate (Example)							
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
BC807-16- Thru BC807-40	F2	Approximate 0.008	3000	30000	120000	7" reel	

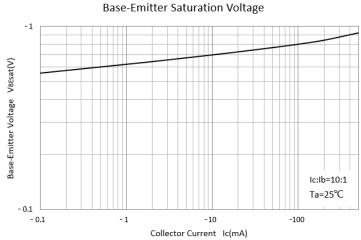
BC807-16 THRU BC807-40

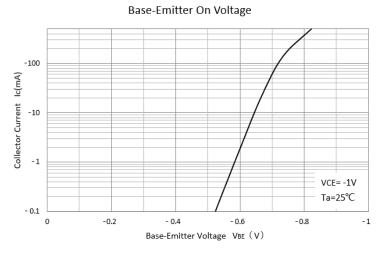
■ Characteristics (Typical)

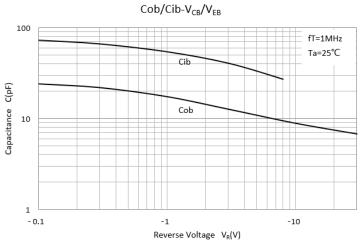






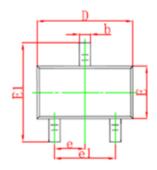


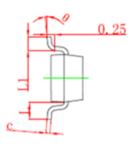


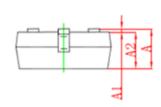




■SOT-23 Package Outline Dimensions

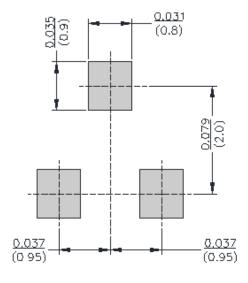






6-1-1	Dimensions In	n Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1. 150	0. 035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1. 050	0. 035	0.041	
b	0.300	0.500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3, 000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0.055	
E1	2. 250	2. 550	0.089	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

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MJ15024/WS MJ15025/WS BC546/116 BC556/FSC BC557/116 BSW67A HN7G01FU-A(T5L,F,T NJVMJD148T4G NSVMMBT6520LT1G NTE187A NTE195A NTE2302 NTE2330 NTE2353 NTE316 IMX9T110 NTE63 NTE65 C4460 SBC846BLT3G 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA1727TLP 2SA2126-E 2SB1202T-TL-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMC5AT148 2N2369ADCSM 2SB1202S-TL-E 2SC2412KT146S 2SC4618TLN 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E BC557B TTC012(Q) BULD128DT4 JANTX2N3810 Jantx2N5416 US6T6TR KSF350 068071B