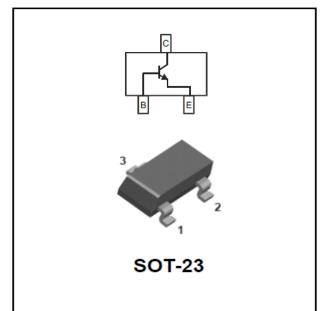
NPN General Purpose Amplifier



Features

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

BC817-16	6A
BC817-25	6B
BC817-40	6C

Maximum Ra	ting
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Item	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	Ĉ	-55 to +150
Storage Temperature	T _{stg}	Ĉ	-55 to +150
Thermal Resistance From Junction To Ambient	R _{eja}	°C/W	417

Off Characteristics

Item	Symbol	Unit	Conditions	MIN	МАХ
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



On Characteristics

ltem		Symbol	Unit	Conditions	Min	Мах
	BC817-16			I _c =100mAdc, V _{cE} =1.0Vdc	100	250
DC Current Gain	BC817-25	h _{FE}			160	400
	BC817-40				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

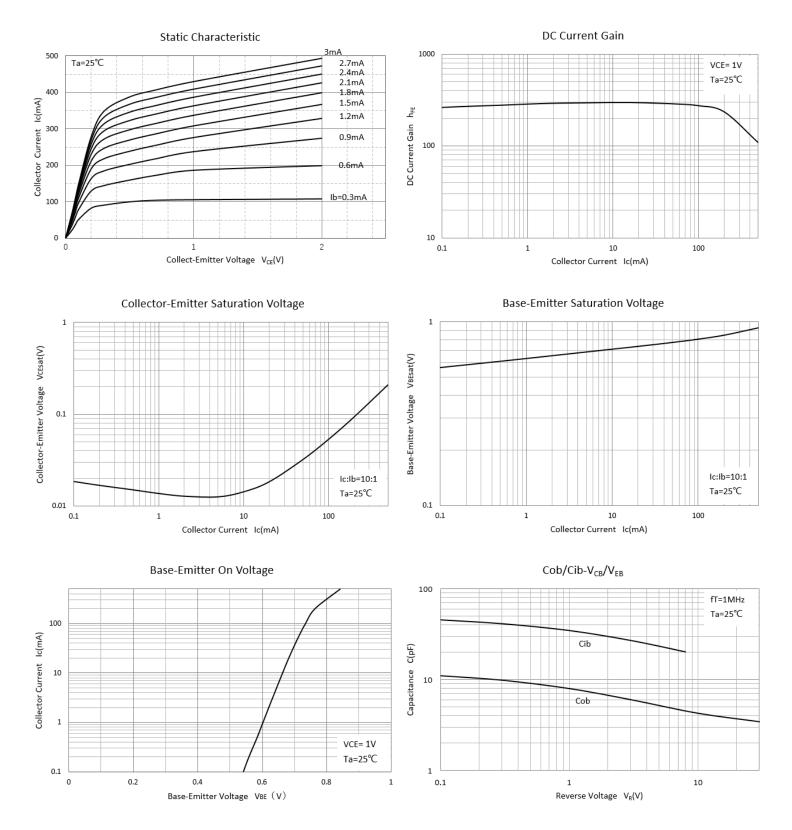
Item	Symbol	Unit	Conditions	Min	Тур	Max
Transition frequency	f⊤	MHz	I_{c} =10mAdc, V_{cE} =5.0Vdc, f=100MHz	100		
Collector-base output capacitance Cob pF VCB=10V,F=1		VCB=10V,F=1MHz		10		

Ordering Information (Example)

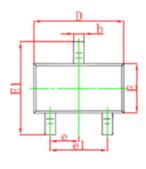
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC817-16 Thru BC817-40	F2	Approximate 0.008	3000	30000	120000	7" reel

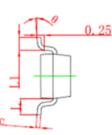


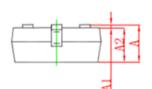
Characteristics (Typical)



■SOT-23 Package Outline Dimensions

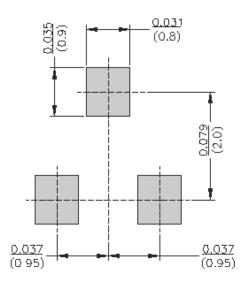






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
Al	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.95	0. 950TYP		7IYP	
el	1.800	2.000	0.071	0.079	
L	0. 550REF		0.02	2REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8*	

■SOT-23 Soldering Footprint





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