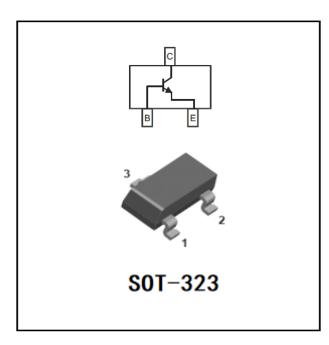




NPN General Purpose Amplifier



Features

- ●Capable of 0.2Watts(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:

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

■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Symbol Value	
Collector-Emitter Voltage	V _{CEO}	45	V
Collector-Base Voltage	V _{CBO}	50	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Collector Current	Ic	0.5	А
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W
Operation Junction Temperature	Tj	-55 to +150	$^{\circ}$
Storage Temperature	T _{stg}	-55 to +150	${\mathbb C}$

■Electrical Characteristics (Ta=25°C unless otherwise specified)

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
DC Current Gain	h _{FE(1)}		IC=100mAdc, VCE=1.0Vdc	100	600
DC Current Gain	h _{FE(2)}		IC=500mAdc, VCE=1.0Vdc	40	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	IC=500mAdc, IB=50mAdc		0.7
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	IC=500mAdc, IB=50mAdc		1.2

■ Small-signal Characteristics

Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	f _T	MHz	I _C =10mAdc,V _{CE} =5.0Vdc, f=100MHz	100	

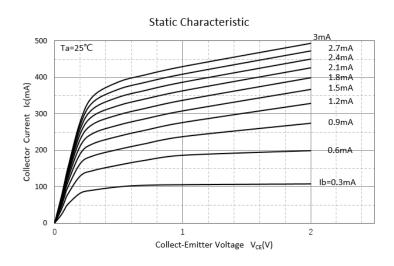
■ Classification of h_{FE}

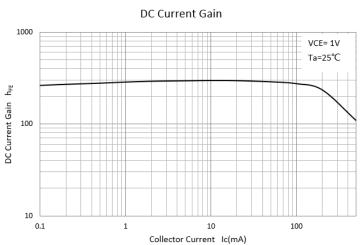
Rank		BC817-16W	BC817-25W	BC817-40W
	Range	100-250	160-400	250-600

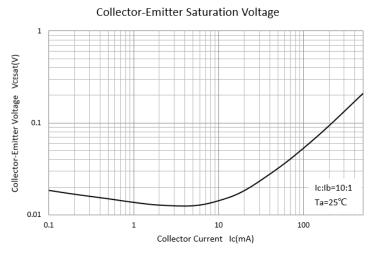
■ Ordering Information (Example)

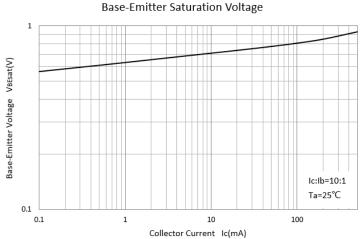
Pref	fered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
	7-16W THRU 817-40W	F2	Approximate 0.008	3000	30000	120000	7" reel

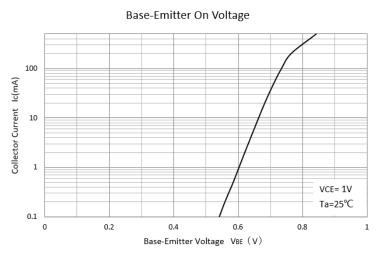
■ Characteristics (Typical)

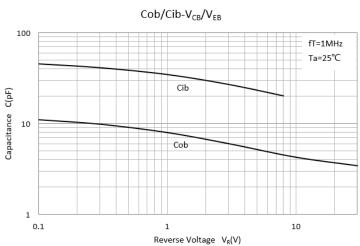






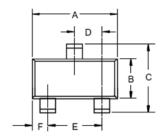


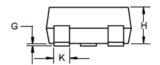


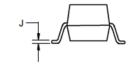




■ SOT-323 Package Outline Dimensions

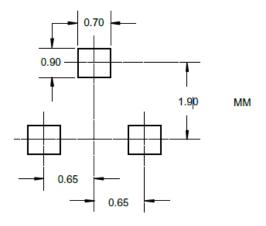






DIMENSIONS								
	INC	HES	M					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.071	.087	1.80	2.20				
В	.045	.053	1.15	1.35				
С	.083 .096		2.10	2.45				
D	.026 Nominal		0.65Nominal					
Е	.047	.055	1.20	1.40				
F	.012	.016	.30	.40				
G	.000	.004	.000	.100				
Η	.035 .039		.90	1.00				
J	.004 .010		.100	.250	·			
K	.006	.016	.15	.40				

■ SOT-323 Soldering Footprint





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