

Surface mount switching diode

Features

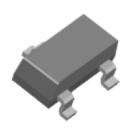
- · For general AF application.
- · Complementary PNP type available BC807.
- · High collector current, high current gain.
- · Low collector-emitter saturation voltage.
- · RoHS compliant package

Applications

- · General purpose medium power amplifier.
- · Switching requiring collector currents up to 1.2mA.

Packing & Order Information

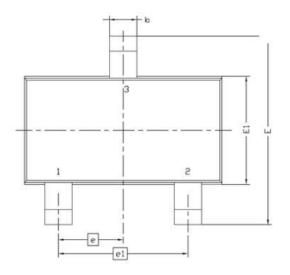
3,000/Reel

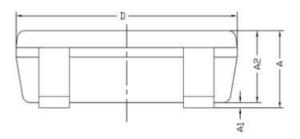


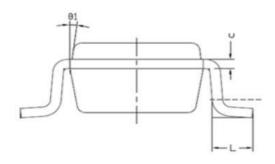
RoHS COMPLIANT

Graphic symbol









Cumbal	MILLIMETERS	
Symbol	MIN	MAX
Α	0.8	1.2
A1	0	0.1
A2	0.7	1.1
b	0.3	0.5
С	0.1	0.2
D	2.7	3.1
E	2.6	3
E1	1.4	1.8
е	0.95 BSC	
e1	1.9 BSC	
L	0.3	0.6
θ1	7° NOM	



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ORDERING INFORMATION			
Type No.	Marking	Package Code	
BC817-16	6A	SOD-123	
BC817-25	6B	SOD-123	
BC817-40	6C	SOD-123	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATING @ Ta=25°C unless otherwise specified			
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I _c	500	mA
Collector Dissipation	P _C	300	mW
Junction and Storage Temperature	Tj,Tstg	-55 to +150	°C

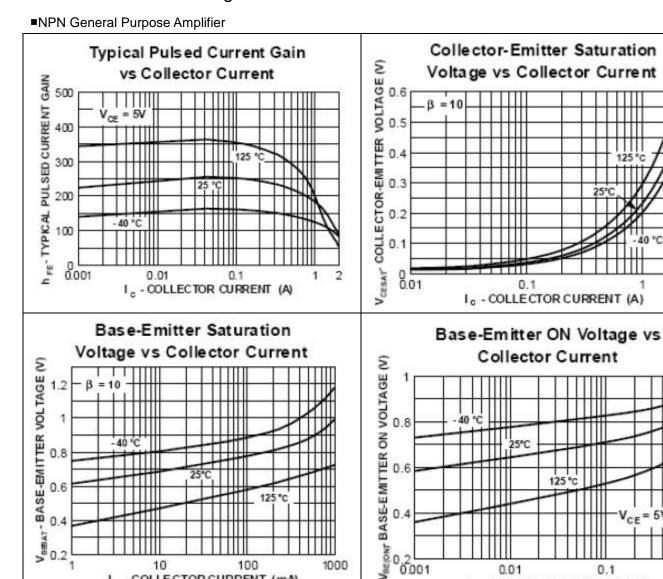
Parameter	Conditions	Symbol	Min	Max	Unit
Collector-base breakdown voltage	IC=10μA IE=0	V _{(BR)CBO}	50		V
Collector-emitter breakdown voltage	IC=10mA IB=0	V _{(BR)CEO}	45		V
Emitter-base breakdown voltage	IE=1μA IC=0	V _{(BR)EBO}	5		V
Collector cut-off current	VCB=45V IE=0	I _{CBO}		0.1	μΑ
Emitter cut-off current	VEB=4V IC=0 0.1	I _{EBO}		0.1	μA
DO a servicio	VCE=1V IC=100mA	h	100	600	
DC current gain	VCE=1V IC=100mA	C=100mA	40		
Collector-emitter saturation voltage	IC=500mA IB=50mA	V _{CE(sat)}		0.7	V
Base-emitter saturation voltage	IC=500mA IB=50mA	V _{BE(sat)}		1.2	V
Collecter capacitance	VCB=10V,f=1MHz	C _{ob}		10	pF
Transition frequency	VCE=5V IC=10mA	· ·	100		MHz
	f=100MHz	f _⊤			IVI□∠

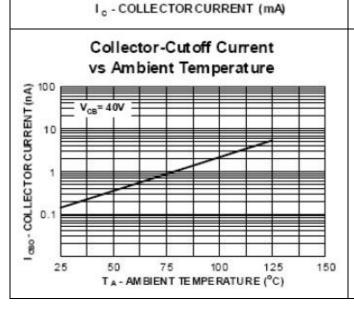
CLASSIFICATION OF HFE(1)				
Rank	BC817-16	BC817-25	BC817-40	
Range	100-250	160-400	250-600	
Marking	6A	6B	6C	



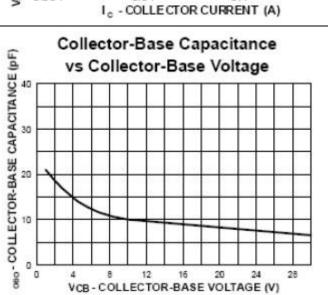
0.2

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100



0.01

0.1

0.2



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