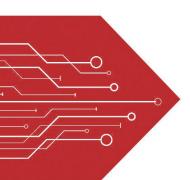
MSKSEMI















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SOT-23

BASE
EMITTER
COLLECTOR



FEATURE

Ldeally suited for automatic insertion Epitaxial planar die construction Complementary NPN type available(BC817)

MAXIMUM RATINGS (T₂=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.5	Α
Pc	Collector Power Dissipation	0.3	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	$^{\circ}$

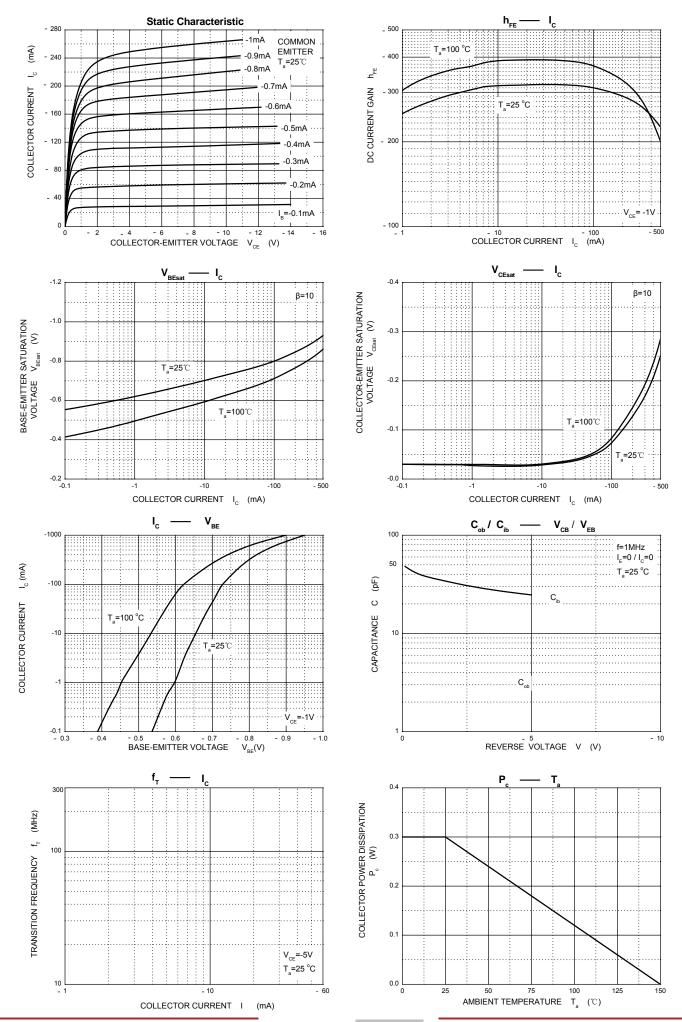
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _C = -10μΑ, I _E =0	-50		V
Collector-emitter breakdown voltage	V _{CEO}	I _C = -10mA, I _B =0	-45		V
Emitter-base breakdown voltage	V _{EBO}	I _E = -1μΑ, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -45V, I _E =0		-0.1	μА
Collector cut-off current	I _{CEO}	V _{CE} = -40V, I _B =0		-0.2	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -4 V, I _C =0		-0.1	μA
DC current gain	hFE(1)	V _{CE} = -1V, I _C = -100mA	100	600	
	hFE(2)	V_{CE} = -1V, I_{C} = -500mA	40		
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-500mA, I _B = -50mA		-0.7	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = -500mA, I _B = -50mA		-1.2	V
Transition frequency	f⊤	V _{CE} = -5V, I _C = -10mA f=100MHz	100		MHz

CLASSIFICATION OF here (1)

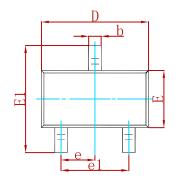
Rank	BC807-16	BC807-25	BC807-40
Range	100-250	160-400	250-600
Marking	5A	5B	5C

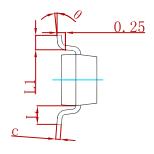


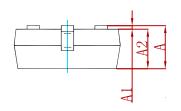




PACKAGE MECHANICAL DATA

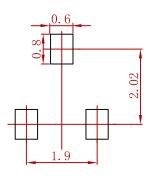






Cumbal	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
Е	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950) TYP	0.037	7 TYP
e1	1.800	2.000	0.071	0.079
L	0.550	REF	0.022	REF
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Suggested Pad Layout



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BC807-16/-25/-40	SOT-23	3000





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