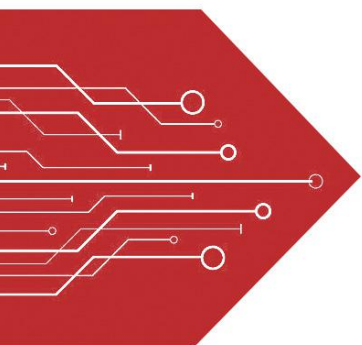


MSKSEMI

SEMICONDUCTOR



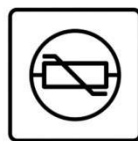
ESD



TVS



TSS



MOV

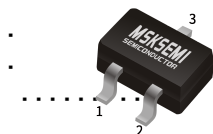


GDT



PLED

Product data sheet



1. BASE
2. EMITTER
3. COLLECTOR

TRANSISTOR (NPN)

· : 95H F9G·

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC807 (PNP)

7 @5 GG= 75H=CB'C: ' h_{FE'}fpk

Fub_	67, %!%`	67, %!&`	67, %!(\$`
Fub[Y`	%%\$!&)\$`	%\$!((\$`	&)\$!*\$\$`
Auf_]b[`	*5`	*6`	*7`

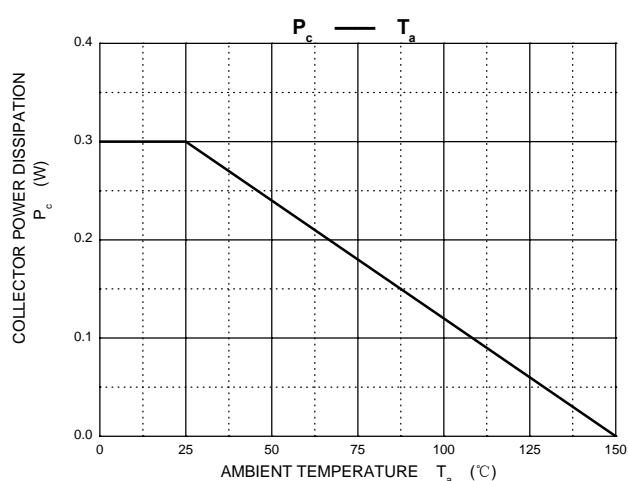
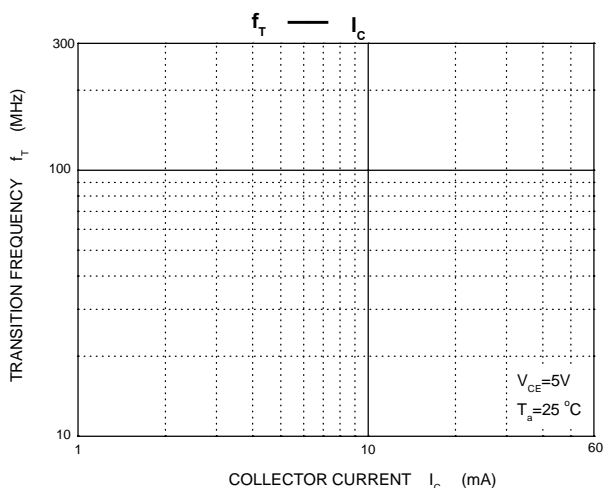
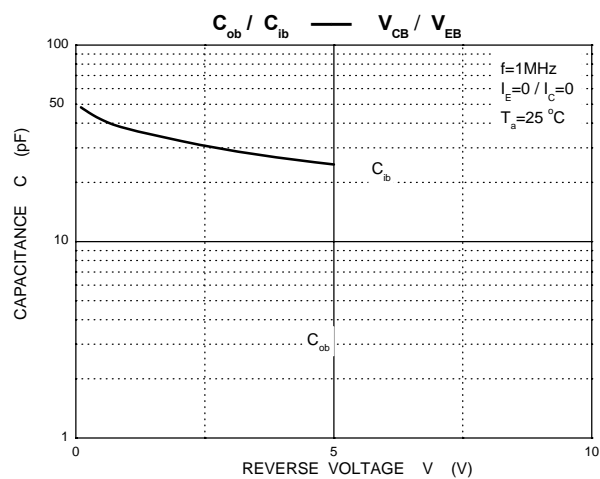
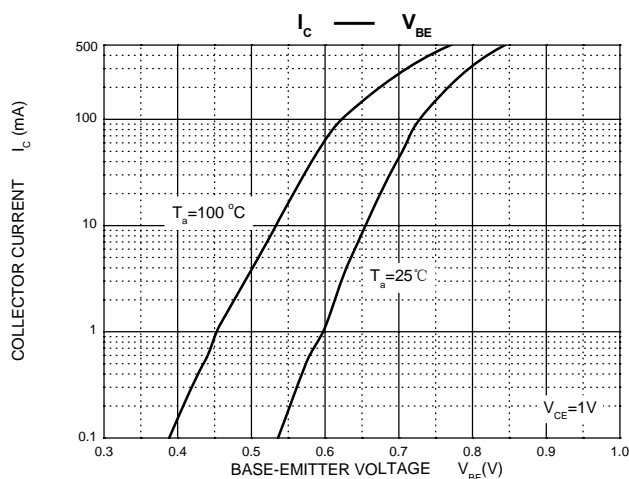
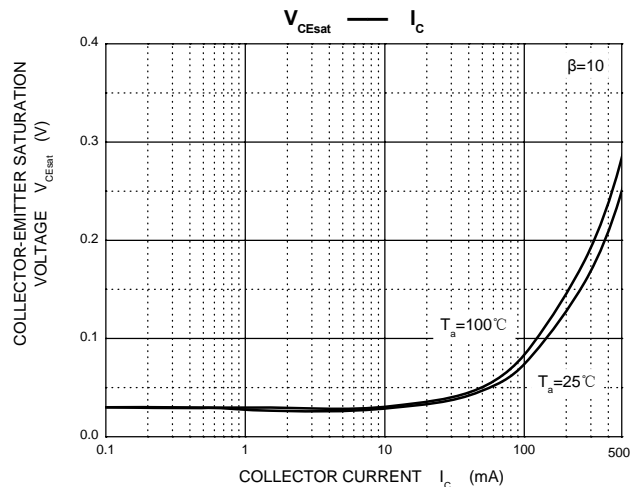
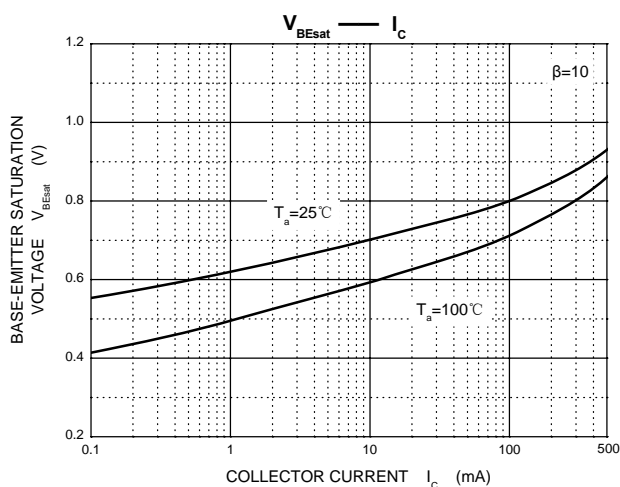
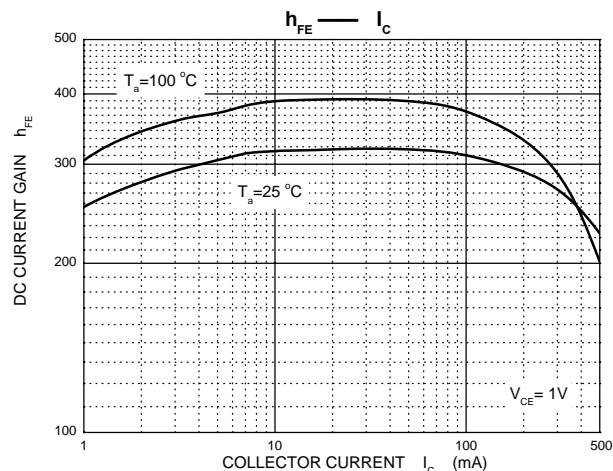
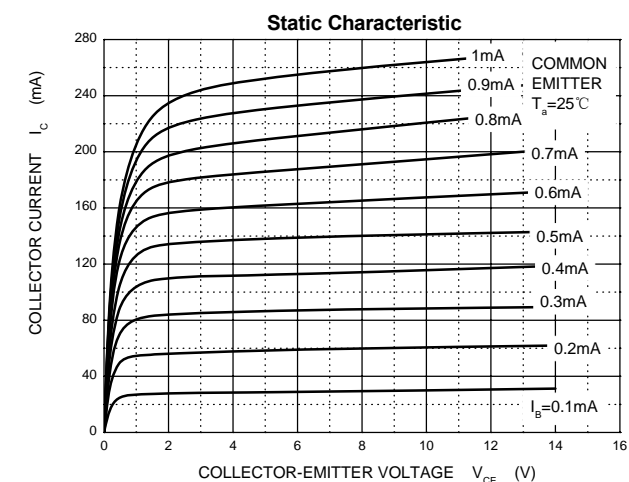
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

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
I_C	Collector Current	500	mA
P_C	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	417	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

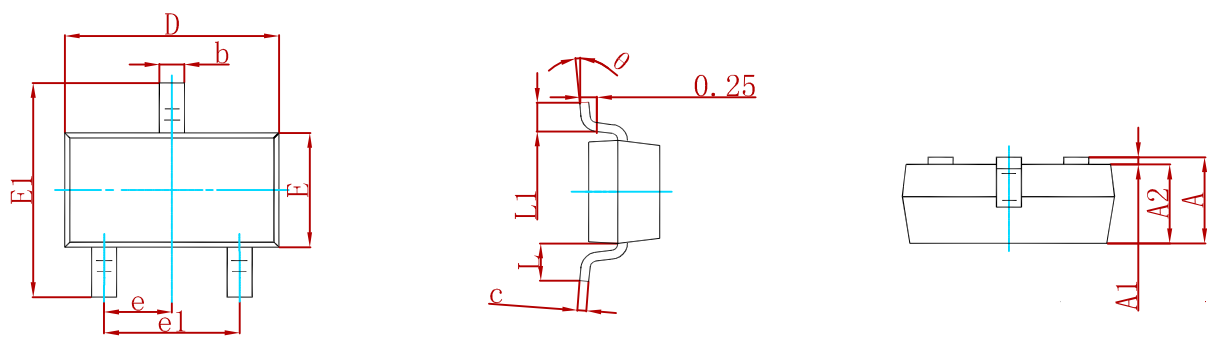
9 @ 7 HF 7 5 @ 7 < 5 F 5 7 H 9 F = G H 7 G f h 1 &) ° C i b ` Y g g c h Y f k j g Y g d Y W Z Y X L

.....DUFUa YHf'	'Gra Vc''	'HYgh VcbX]Hjcbg'	'A in	Typ'	A ax	Unit
7c''YWcf!VUGY'VfYU_Xck b'j c`HJ[Y'	V _{CBO}	I _C = 10μA, I _E =0	50			V
7c''YWcf!Ya JHf'VfYU_Xck b'j c`HJ[Y'	V _{CEO}	I _C = 10mA, I _B =0	45			V
9a JHf'!VUGY'VfYU_Xck b'j c`HJ[Y'	V _{EBO}	I _E = 1μA, I _C =0	5			V
7c''YWcf'W HcZZW ffYbh	I _{CBO}	V _{CB} = 45 V , I _E =0			0.1	μA
9a JHf'W HcZZW ffYbh	I _{EBO}	V _{EB} = 4V, I _C =0			0.1	μA
87'W ffYbh[Ujb	h _{FE(1)}	V _{CE} = 1V, I _C = 100mA	100		600	
	h _{FE(2)}	V _{CE} = 1V, I _C = 500mA	40			
7c''YWcf!Ya JHf'gUf fUH]cb'j c`HJ[Y'	V _{CE(sat)}	I _C = 500mA, I _B = 50mA			0.7	V
6 UgY!Ya JHf'gUf fUH]cb'j c`HJ[Y'	V _{BE(sat)}	I _C = 500mA, I _B = 50mA			1.2	V
6 UgY!Ya JHf'j c`HJ[Y'	V _{BE}	V _{CE} = 1 V, I _C = 500mA			1.2	V
7c''YWf'VUdUW]UbW'	C _{ob}	V _{CB} =10V ,f=1MHz		10		pF
HfUbg]H]cb'Z'Yei YbWni	f _T	V _{CE} = 5 V, I _C = 10mA f=100MHz	100			MHz

Typical Characteristics

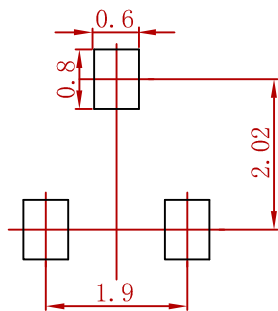


PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	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
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 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



- Note:
- 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
BC817-16/25/40	SOT-23	3000

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