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SEMICONDUCTOR



ESD



TVS



TSS



MOV

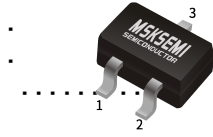


GDT



PLED

Product data sheet



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

GH&'

TRANSISTOR (NPN)

95HF9G

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

75HCB: hFE

F _U	67, %!	67, %!&	67, %!(\$
F _U [Y	%%\$!& \$	% \$(\$ \$	& \$! \$ \$
A _U]b[* 5	* 6	* 7

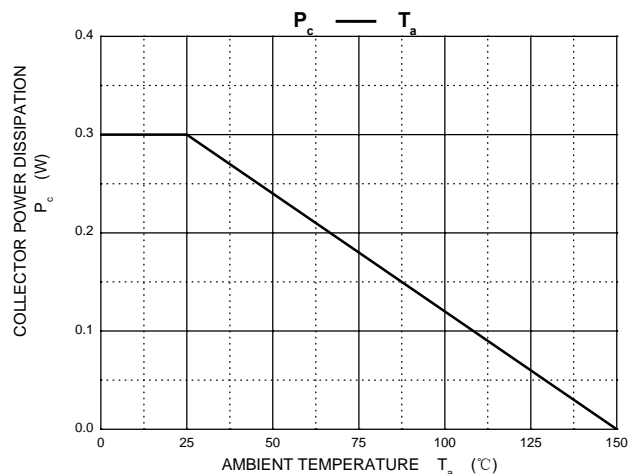
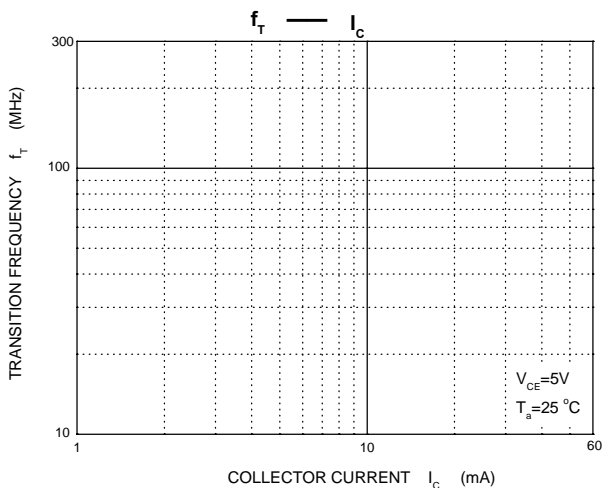
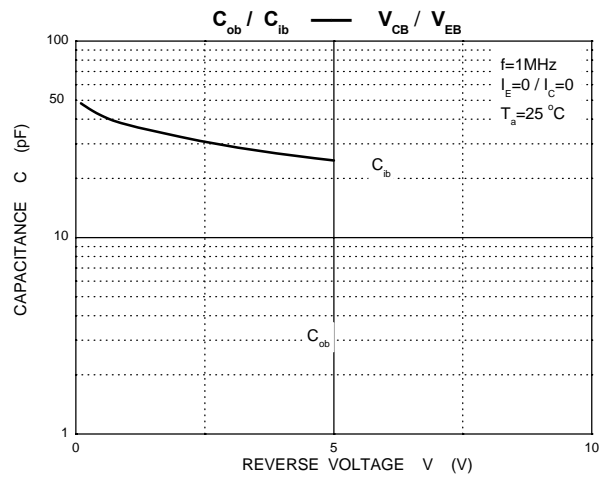
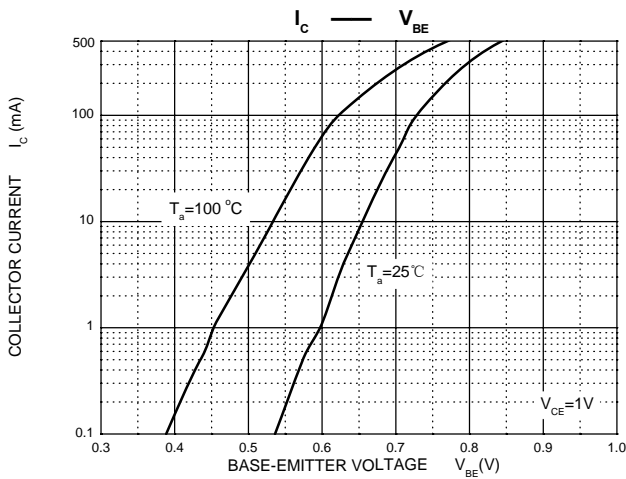
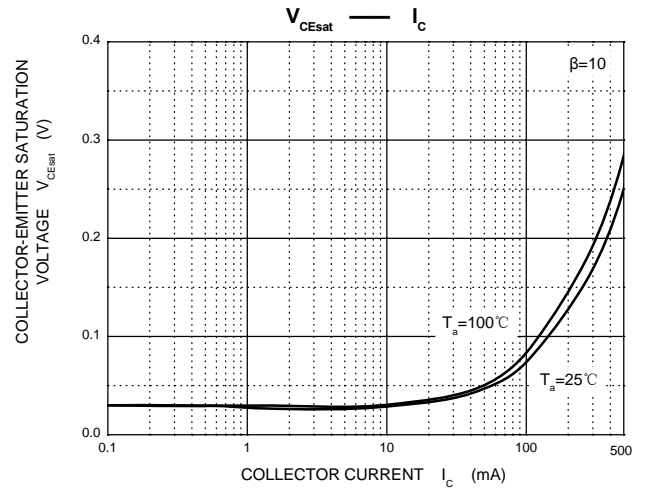
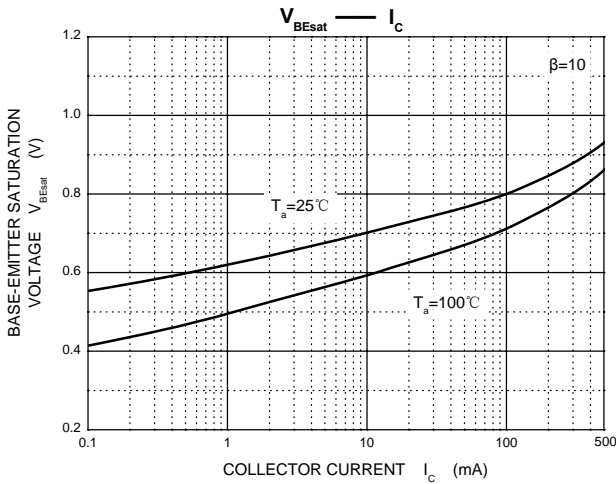
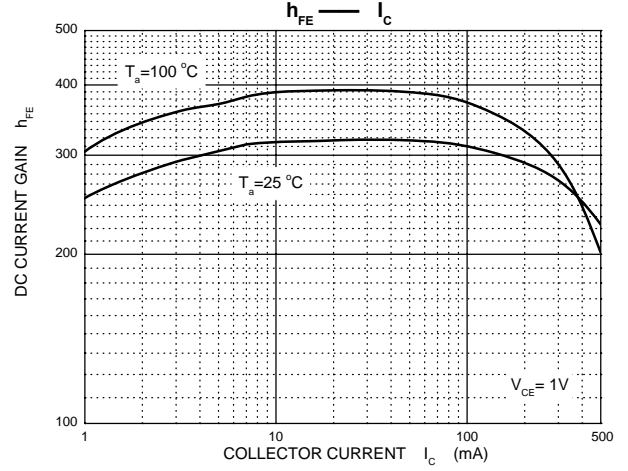
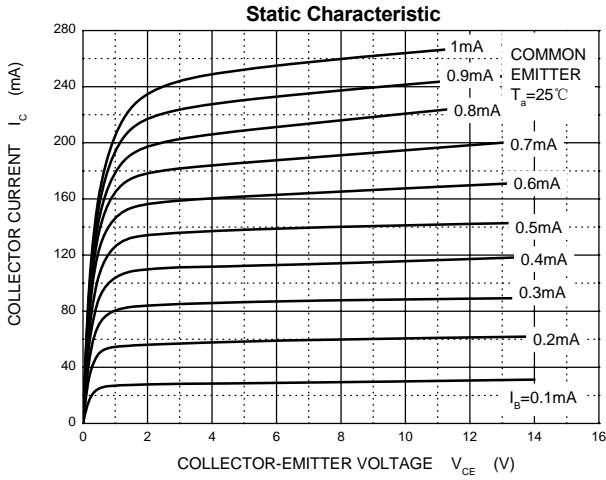
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

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 _{θJA}	Thermal Resistance From Junction To Ambient	417	°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

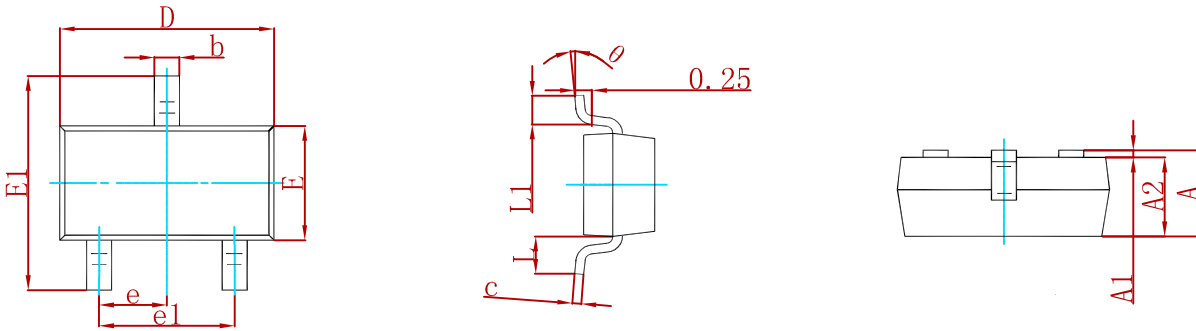
9 @ 7 HF 7 5 @ 7 < 5 F 5 7 H 9 F - GH 7 G' f H 1 &) °C i b`Ygg' c H Yfk jgY gdYWZ YXL

Symbol	Parameter	Value	Unit
V _{CBO}	I _C = 10μA, I _E =0	50	V
V _{CEO}	I _C = 10mA, I _B =0	45	V
V _{EBO}	I _E = 1μA, I _C =0	5	V
I _{CBO}	V _{CB} = 45 V, I _E =0	0.1	μA
I _{EBO}	V _{EB} = 4V, I _C =0	0.1	μA
h _{FE(1)}	V _{CE} = 1V, I _C = 100mA	100	
h _{FE(2)}	V _{CE} = 1V, I _C = 500mA	40	
V _{CE(sat)}	I _C = 500mA, I _B = 50mA	0.7	V
V _{BE(sat)}	I _C = 500mA, I _B = 50mA	1.2	V
V _{BE}	V _{CE} = 1 V, I _C = 500mA	1.2	V
C _{ob}	V _{CB} =10V, f=1MHz	10	pF
f _T	V _{CE} = 5 V, I _C = 10mA f=100MHz	100	MHz

Typical Characteristics

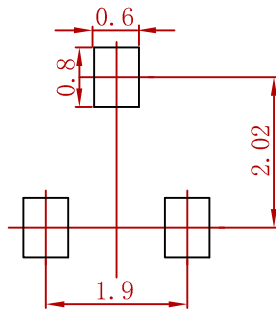


PACKAGE MECHANICAL DATA



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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