



.....67, %±

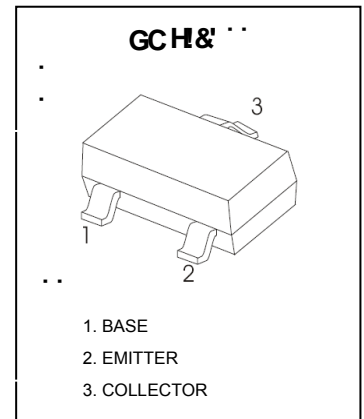
GCH& `D` UgjW9 bWUdgi `UH`HfUbgjgfcfg (NPN)

**95HI F9G**

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

**MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	50	V
V <sub>CEO</sub>	Collector-Emitter Voltage	45	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current	500	mA
P <sub>C</sub>	Collector Power Dissipation	300	mW
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	417	°C/W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55~+150	°C

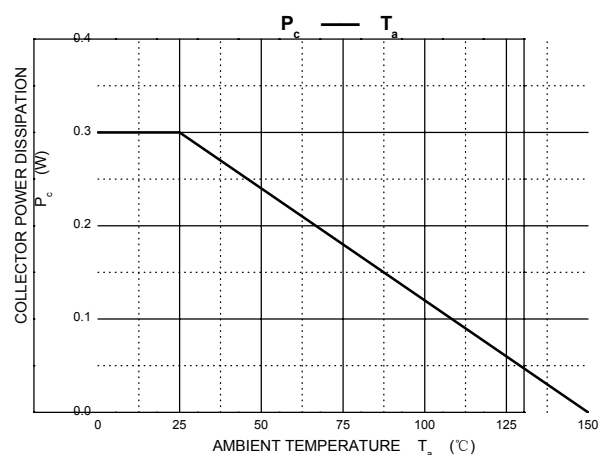
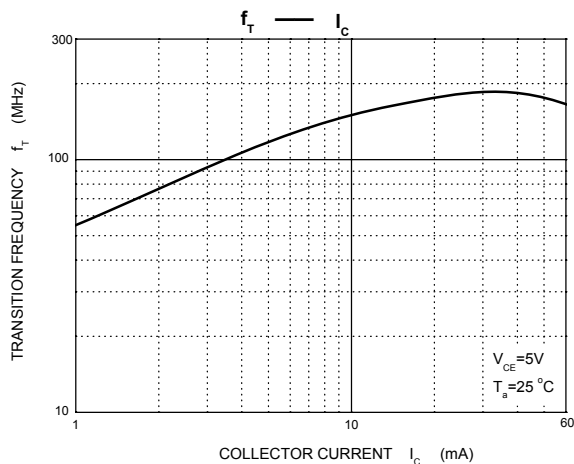
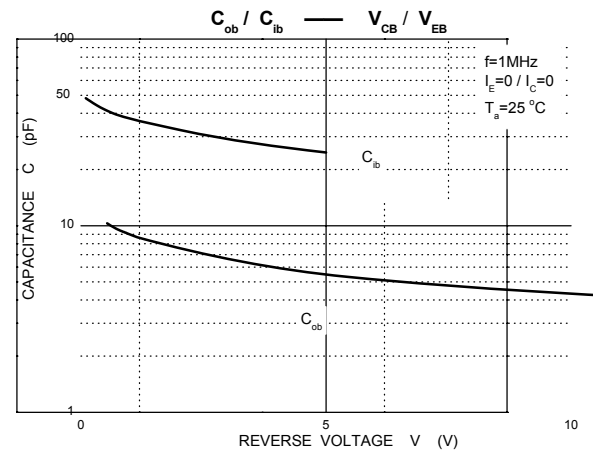
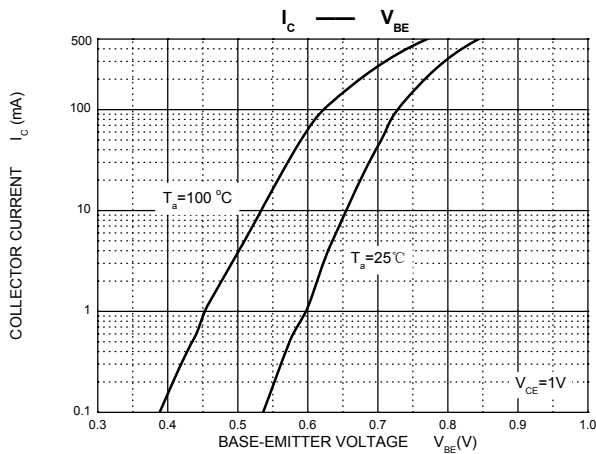
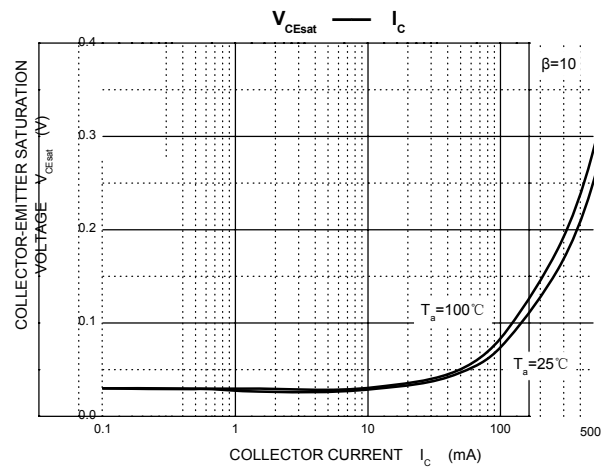
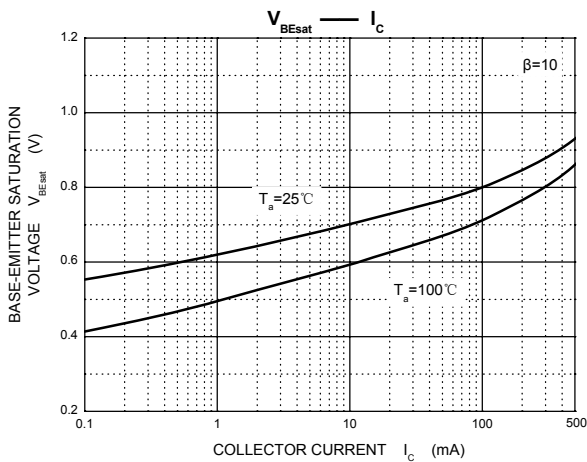
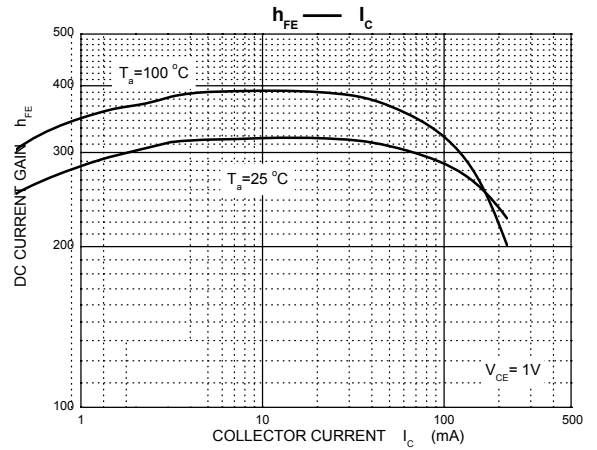
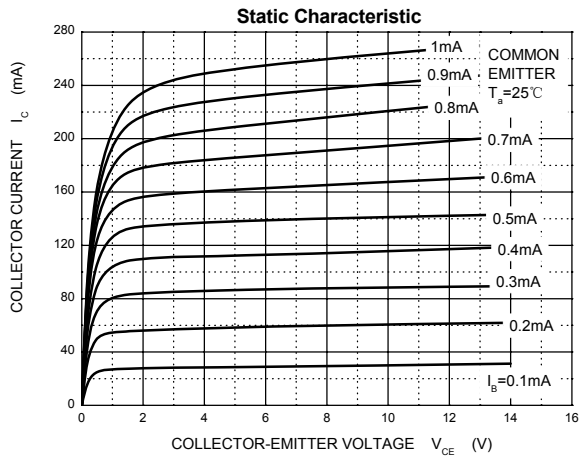


**9 @ 7 HF = 5 @ 7 < 5 F 5 7 H9 F = GH = 7 G' f h a 1 & ) °C' i b`Ygg' c h Yf k jg Y gd YW Z Y X L`**

..... DUfUa Ynf`	Gma Vc`	HYgh VtbX]hcbg`	Ain	Typ`	Aax	Unit
7 c`YWfc!VUgY VfYU_Xck b'j c`HU] Y`	V <sub>CB0</sub>	I <sub>C</sub> = 10μA, I <sub>E</sub> =0	50			V
7 c`YWfc!Ya ]HYf`VfYU_Xck b'j c`HU] Y`	V <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> =0	45			V
9a ]HYf!VUgY VfYU_Xck b'j c`HU] Y`	V <sub>EBO</sub>	I <sub>E</sub> = 1μA, I <sub>C</sub> =0	5			V
7 c`YWfc`W HcZZW ffYbh	I <sub>CB0</sub>	V <sub>CB</sub> = 45 V, I <sub>E</sub> =0			0.1	μA
9a ]HYf`W HcZZW ffYbh	I <sub>EBO</sub>	V <sub>EB</sub> = 4V, I <sub>C</sub> =0			0.1	μA
8 7 `W ffYbh] Ujb`.....	h <sub>FE(1)</sub>	V <sub>CE</sub> = 1V, I <sub>C</sub> = 100mA	100		600	
	h <sub>FE(2)</sub>	V <sub>CE</sub> = 1V, I <sub>C</sub> = 500mA	40			
7 c`YWfc!Ya ]HYf`gUhi fUH]cb'j c`HU] Y`	V <sub>CE(sat)</sub>	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA			0.7	V
6 UgY!Ya ]HYf`gUhi fUH]cb'j c`HU] Y`	V <sub>BE(sat)</sub>	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA			1.2	V
6 UgY!Ya ]HYf`j c`HU] Y`	V <sub>BE</sub>	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 500mA			1.2	V
7 c`YWNf`WUdUWfUbwW`	C <sub>ob</sub>	V <sub>CB</sub> =10V, f=1MHz		10		pF
HfUbg]hcb`Z`Yei YbWni	f <sub>T</sub>	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 10mA f=100MHz	100			MHz

**7 @ GG = 7 5 HCB`C: ` hFE`%**

FUb`	6 7, %±!%`	6 7, %±!&`	6 7, %±!( \$`
FUb] Y`	%%\$!&` \$`	% \$!( \$ \$`	&) \$!* \$ \$`
AUf_]b[`	* 5`	* 6`	* 7`

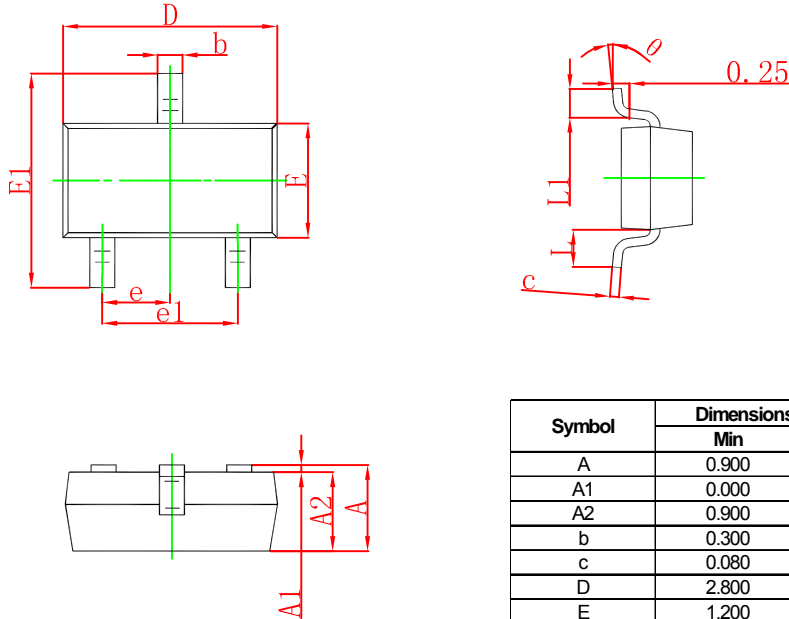




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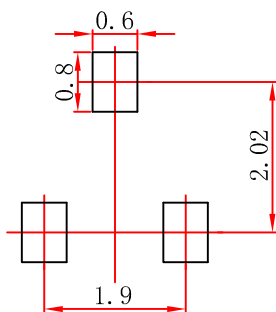
GCH& `D`UghjW9bWUdgi `UhY`HfUbgjghc f g (NPN)

## SOT-23 Package Outline Dimensions



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°

## SOT-23 Suggested Pad Layout



Note:

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

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