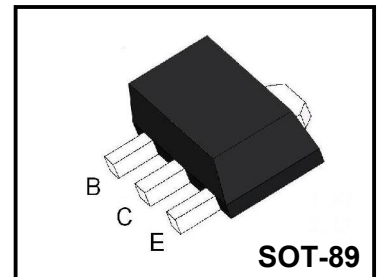


**PNP Plastic-Encapsulate Transistors**
**Features**

- ◆Adoption of FBET, MBIT processes.
- ◆High breakdown voltage and large current capacity.
- ◆Fast switching time.
- ◆Very small size making it easy to provide high-density, small-sized hybrid ICs.
- ◆Complement to 2SC3647.


**Absolute Maximum Rating (Ta=25°C)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$BV_{CBO}$	-120	V
Collector-Emitter Voltage	$BV_{CEO}$	-100	V
Emitter-Base Voltage	$BV_{EBO}$	-6	V
Collector Current	$I_C$	-2	A
Collector Current (Pulse)	$I_{CP}$	-3	A
Collector Power Dissipation	$P_C$	500	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C

**Electrical Characteristics (Ta=25°C)**

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	$BV_{CBO}$	$I_C = -100\mu A, I_E = 0$	-120			V
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C = -1mA, I_B = 0$	-100			V
Emitter-base breakdown voltage	$BV_{EBO}$	$I_E = -100\mu A, I_C = 0$	-6			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -100V, I_E = 0$			-100	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -4V, I_C = 0$			-100	nA
DC current gain	$h_{FE}$	$V_{CE} = -5V, I_C = -100mA$	100		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1A, I_B = -100mA$			-0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1A, I_B = -100mA$			-1.2	V
Transition frequency	$f_T$	$V_{CE} = -10V, I_B = -100mA$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, F=1MHz$		25		pF

 **$h_{FE}(2)$  Classification**

Classification	R	S	T
Range	100-200	140-280	200-400
Marking	ACR	ACS	ACT

Typical Characteristics

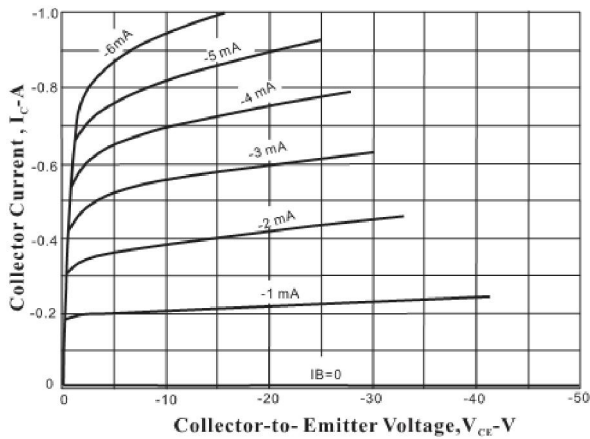


Figure 1. Static Characteristic

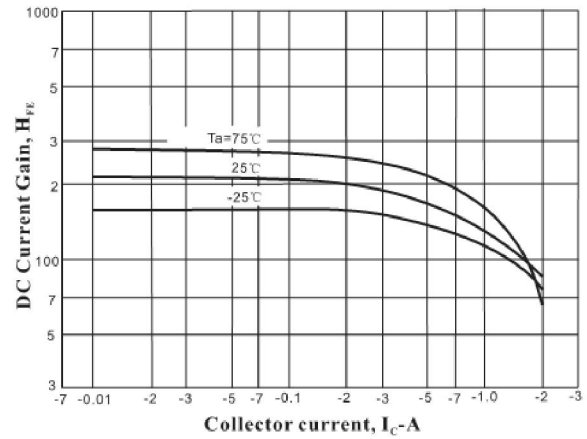


Figure 2. DC current Gain

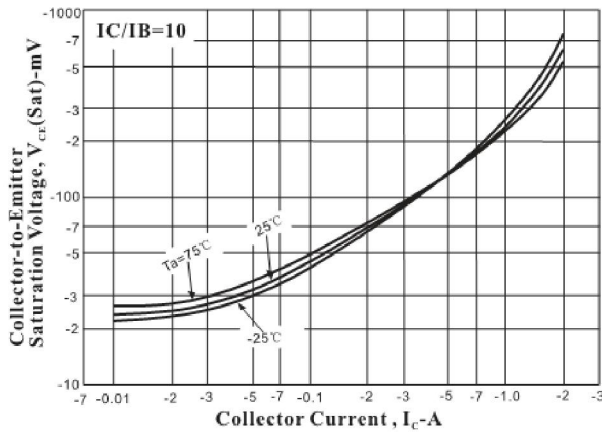


Figure 3. Collector-Emitter Saturation Voltage

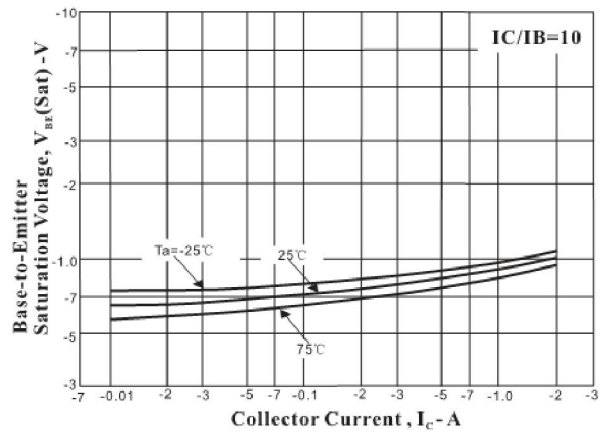


Figure 4. Base-Emitter Saturation Voltage

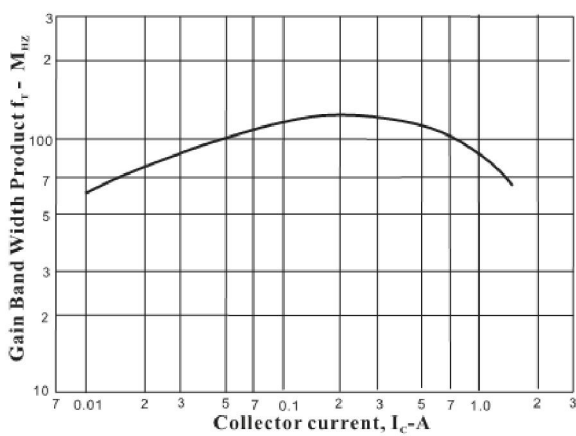


Figure 5. Current Gain Bandwidth Product

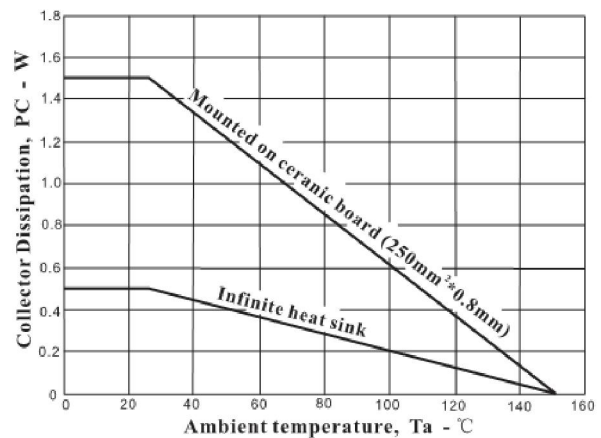


Figure 6. Power Derating

Package Outline

SOT-89

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-89	Tape/Reel, 7" reel	1000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)