

Description

- Silicon PNP transistor in a SOT-89 Plastic Package.

Features

- Low saturation voltage
- Excellent DC current gain characteristics
- Complements the 2SC4672

Applications

- Power amplifier

Symbol	Parameter	Max	Unit
V_{CEO}	collector-emitter voltage	-50	V
I_C	collector current (DC)	-3.0	A

Equivalent Circuit & Pinning



PIN1: Base PIN 2: Emitter PIN 3: Collector

hFE Classifications & Marking

h _{FE} Classifications Symbol	P	Q
h _{FE} Range	82~180	120~270
Marking	HAGP*	HAGQ*

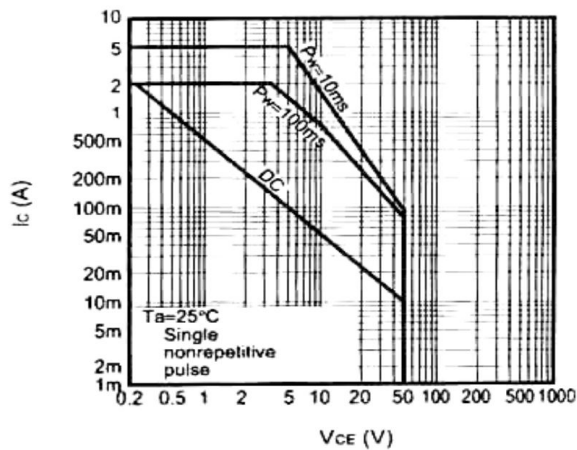
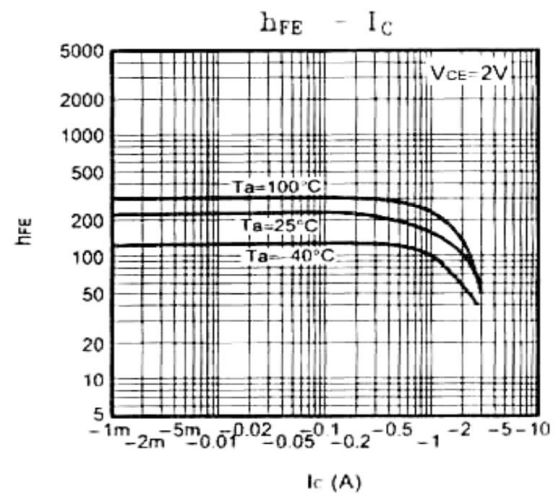
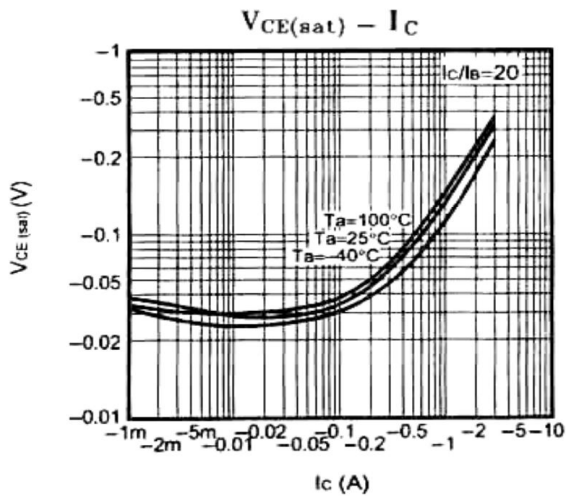
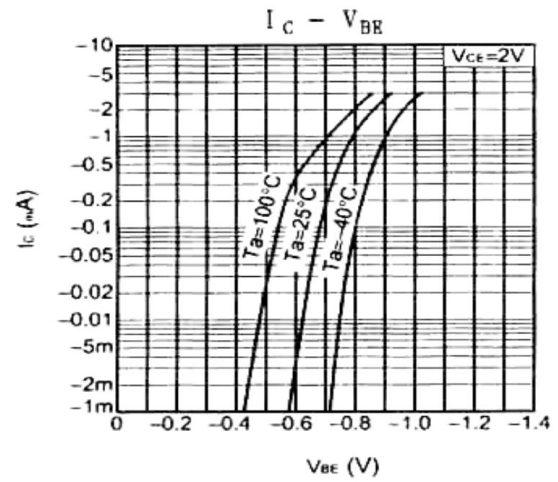
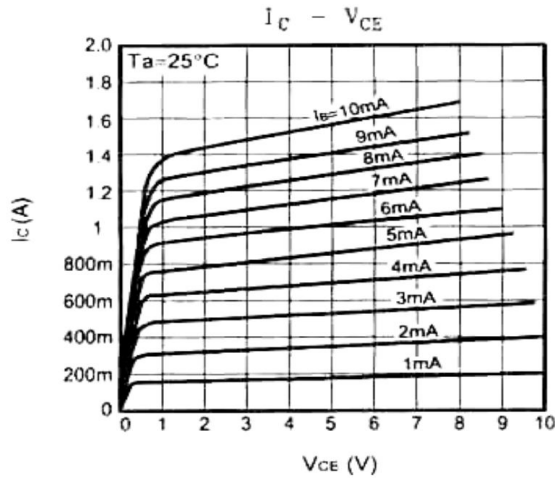
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CBO}	-50	V
Collector to Emitter Voltage	V _{CEO}	-50	V
Emitter to Base Voltage	V _{EBO}	-6.0	V
Collector Current-Continuous	I _C	-3.0	A
Collector Current -Continuous(Pulse)	I _{CP}	-6.0	A
Collector Power Dissipation	P _C	0.5	W
Collector Power Dissipation*	*P _C	2.0	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =-50μA	-50			V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =-1.0mA	-50			V
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =-50μA	-6.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-50V			-0.1	μA
Emitter Base Cut-Off Current	I _{EBO}	V _{EB} =-5.0V			-0.1	μA
DC Current Gain	h _{FE}	V _{CE} =-2.0V I _C =-500mA	82		270	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =-1.0A I _B =-50mA		-0.15	-0.35	V
Transition Frequency	f _T	V _{CE} =-2.0V f=100MHz I _C =-0.5A		200		MHz
Collector Output Capacitance	C _{ob}	V _{CB} =-10V f=1.0MHz I _E =0		36		pF

Electrical Characteristic Curve



Marking Instructions



Note:

H: Company Code.

AG: Product Type.

P: hFE Classifications Symbol

** : Lot No. Code, code change with Lot No.

Packaging SPEC.

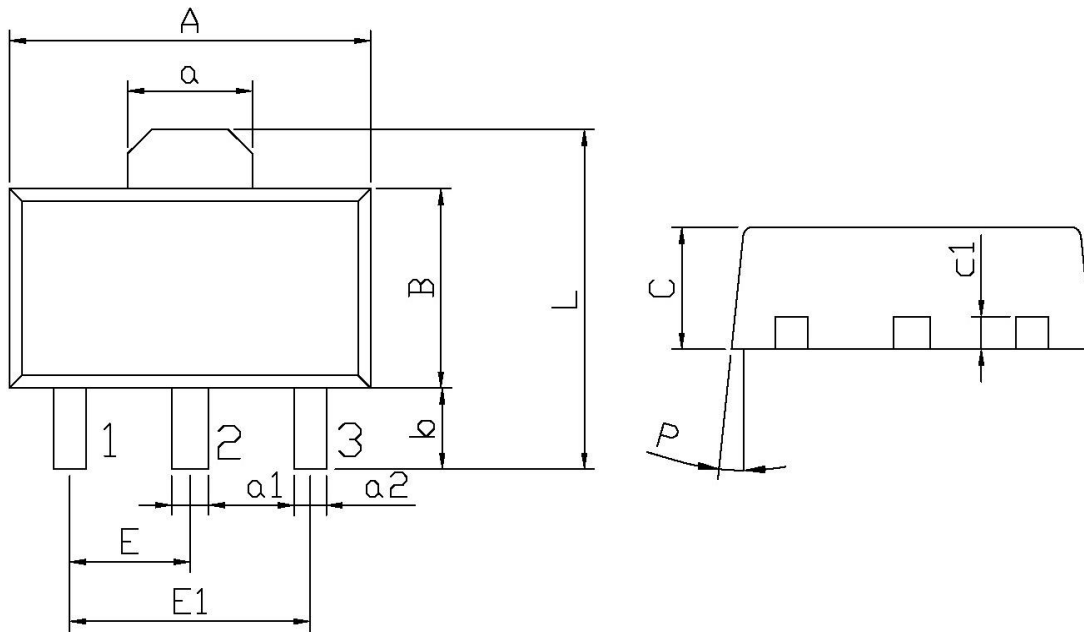
REEL INFORMATION

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	8	56,000	7" x12	180×120×180	385×257×392

Package Outline Dimensions

SOT-89

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.4	4.7	a1	0.36	0.56
B	2.35	2.65	a2	0.30	0.50
L	3.878	4.478	C	1.40	1.70
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
E1	2.80	3.20			
b	0.80	1.20			