

## Descriptions

Silicon PNP transistor in a SOT-89 Plastic Package.

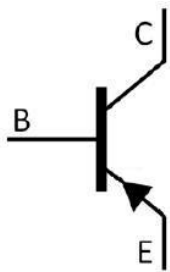
## Features

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

## Applications

- Power amplifier

## Equivalent Circuit



## Pinning



PIN1: Base PIN 2: Emitter PIN 3: Collector

## hFE Classifications & Marking

h <sub>FE</sub> Classifications Symbol	P	Q
h <sub>FE</sub> Range	82~180	120~270
Marking	HAGP * *	HAGQ * *

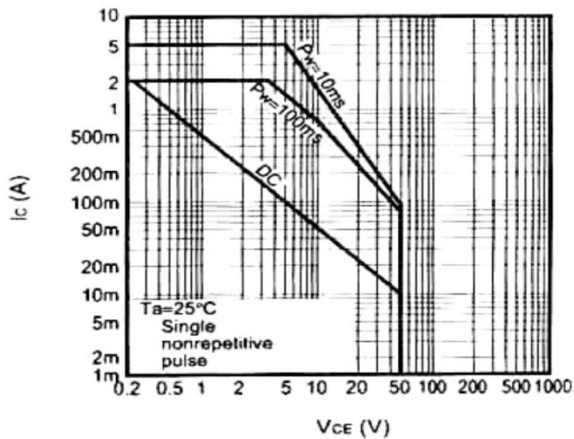
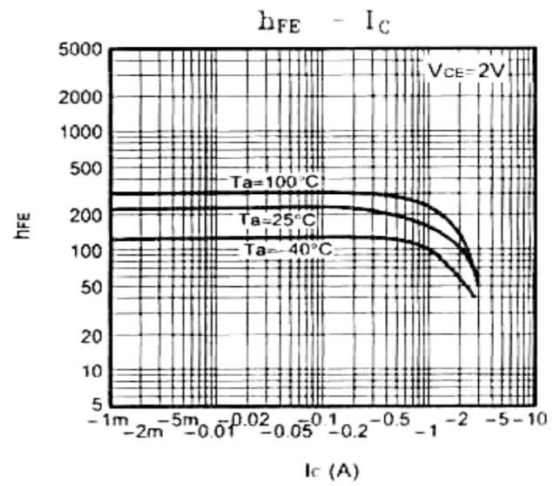
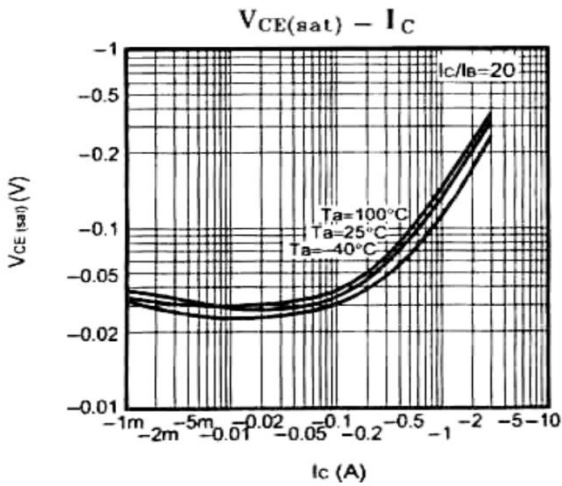
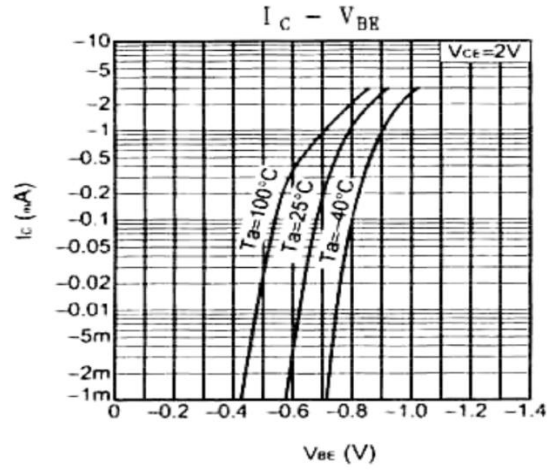
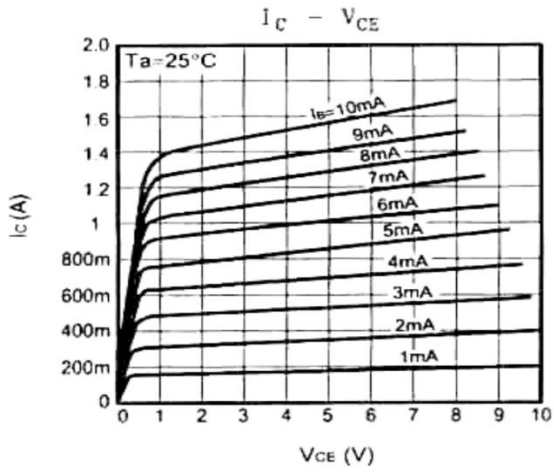
## Absolute Maximum Ratings(Ta=25°C)

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	$V_{CBO}$	$I_C = -50\mu A$	-50			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C = -1.0mA$	-50			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E = -50\mu A$	-6.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = -50V$			-0.1	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB} = -5.0V$			-0.1	$\mu A$
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

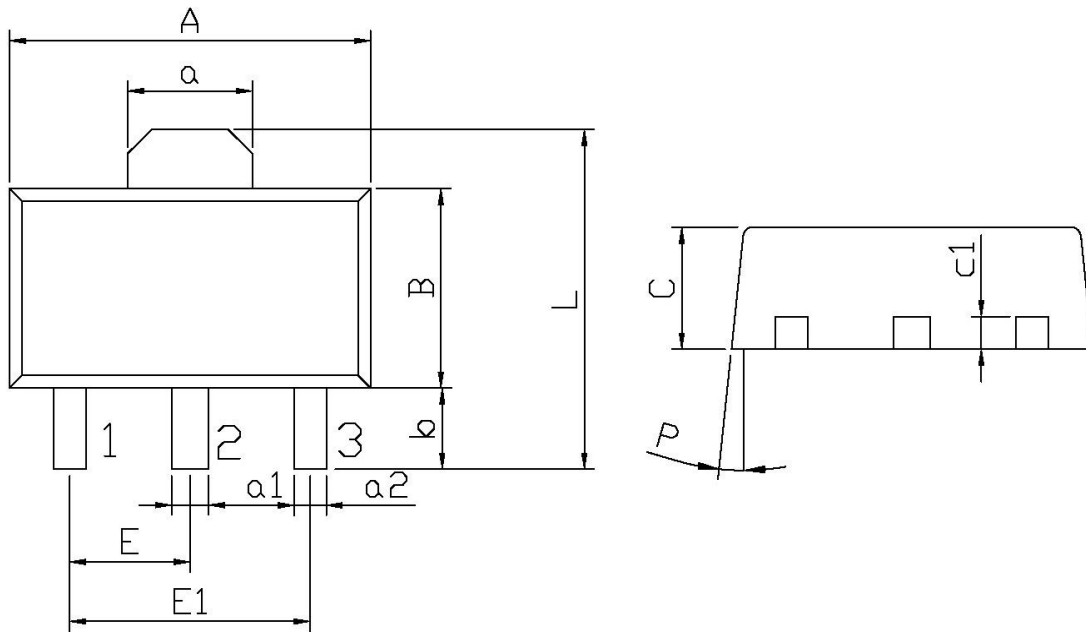
### REEL INFORMATION

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	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" ×12	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			