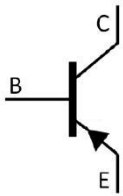


SOT-89          PNP          Silicon PNP transistor in a SOT-89 Plastic Package.

2SD 2098  
 Low  $V_{CE(sat)}$ , excellent DC current gain , complements the 2SD2098. Halogen-free Product.

General power amplifier applications.

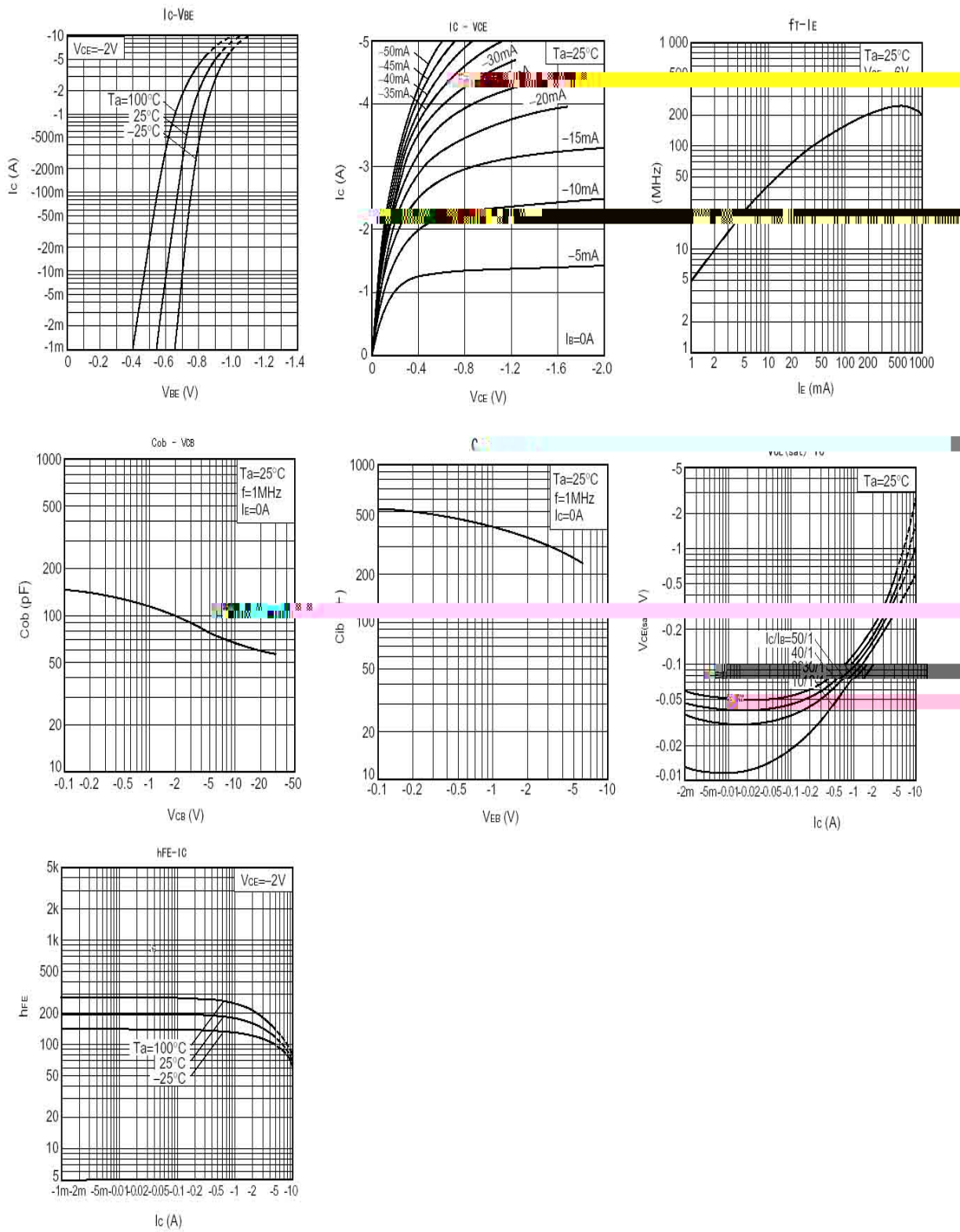


PIN1 Base          PIN 2 Collector          PIN 3 Emitter

$h_{FE}$ Classifications Symbol	P	Q	R
$h_{FE}$ Range	82 180	120 270	180 390
Marking	BHPH <sup>*</sup>	BHQH <sup>*</sup>	BHRH <sup>*</sup>

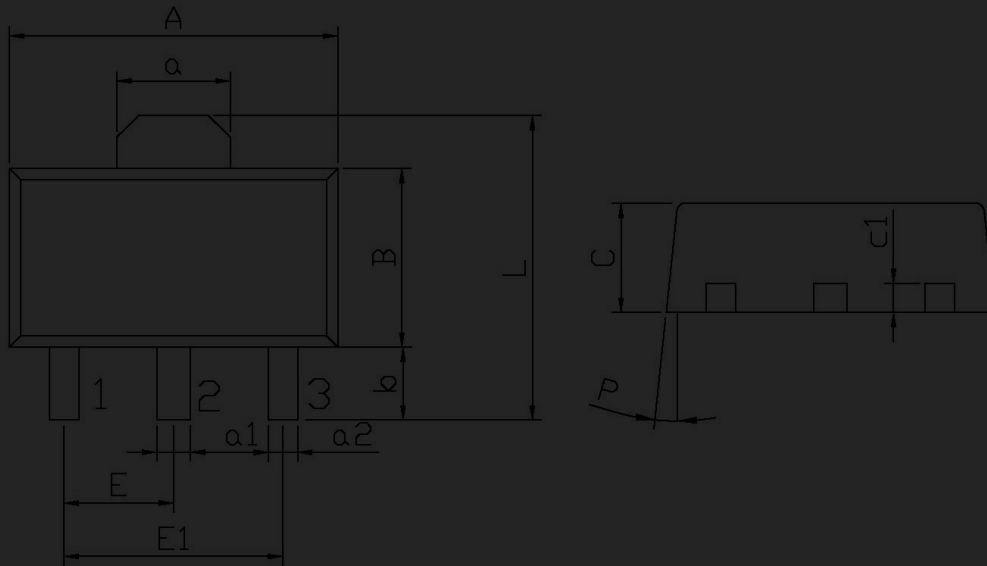
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-30	V
Collector to Emitter Voltage	$V_{CEO}$	-20	V
Emitter to Base Voltage	$V_{EBO}$	-6.0	V
Collector Current-Continuous	$I_C$	-5.0	A
Collector Base-Continuous(Pulse)	$I_{CP}$	-10	A
Collector Power Dissipation	$P_C$	0.5	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=-50\mu A$ $I_E=0$	-30			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-1.0mA$ $I_B=0$	-20			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=-50\mu A$ $I_C=0$	-6.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-20V$ $I_E=0$			-0.5	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-0.5	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=-2.0V$ $I_C=-0.5A$	82		390	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-4.0A$ $I_B=-0.1A$		-0.35	-1.0	V
Transition Frequency	$f_T$	$V_{CE}=-6.0V$ $I_C=-50mA$ $f=30MHz$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CE}=-20V$ $I_E=0$ $f=1.0MHz$		60		pF

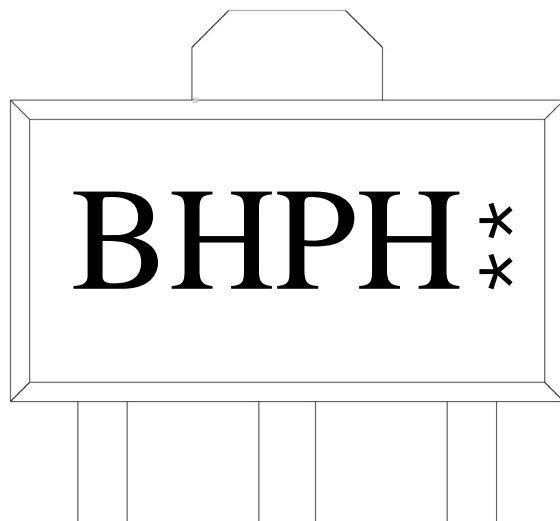


STT-89

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



BH

P             $h_{FE}$

H

\*\*

Note:

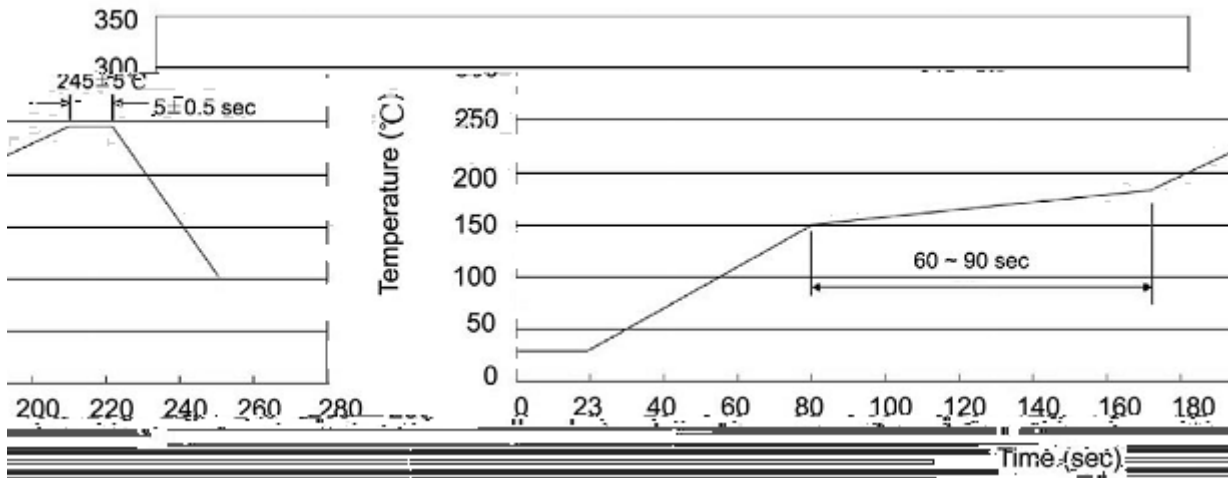
BH:        Product Type.

P             $h_{FE}$  Classifications Symbol

H:            Company Code.

\*\*:

Lot No. Code, code change with Lot No.



Note:

- |   |       |     |           |        |   |
|---|-------|-----|-----------|--------|---|
| 1 | 25    | 150 | 60        | 90sec; | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 245±5 |     | 5±0.5sec; |        | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10        | /sec.  | 3. Cooling Speed: 2~10 /sec.            |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392