

**/ Descriptions**

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

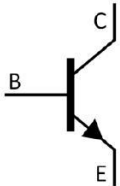
**/ Features**

Low  $V_{CE(sat)}$ , High performance at low supply voltage.

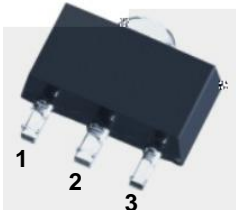
**/ Applications**

AF Power amplifier.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base          PIN 2 Collector          PIN 3 Emitter

**/ Marking**

$h_{FE}$ Classifications Symbol	P	Q	R
$h_{FE}$ Range	180 270	230 380	340 600
Marking	HTP * **	HTQ * **	HTR * **

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	40	V
Collector to Emitter Voltage	$V_{CEO}$	25	V
Emitter to Base Voltage	$V_{EBO}$	7.0	V
Collector Current-Continuous	$I_C$	3.0	A
Collector Current -Continuous(Pulse)	$I_{CP}$	5.0	A
Collector Power Dissipation	$P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	T		



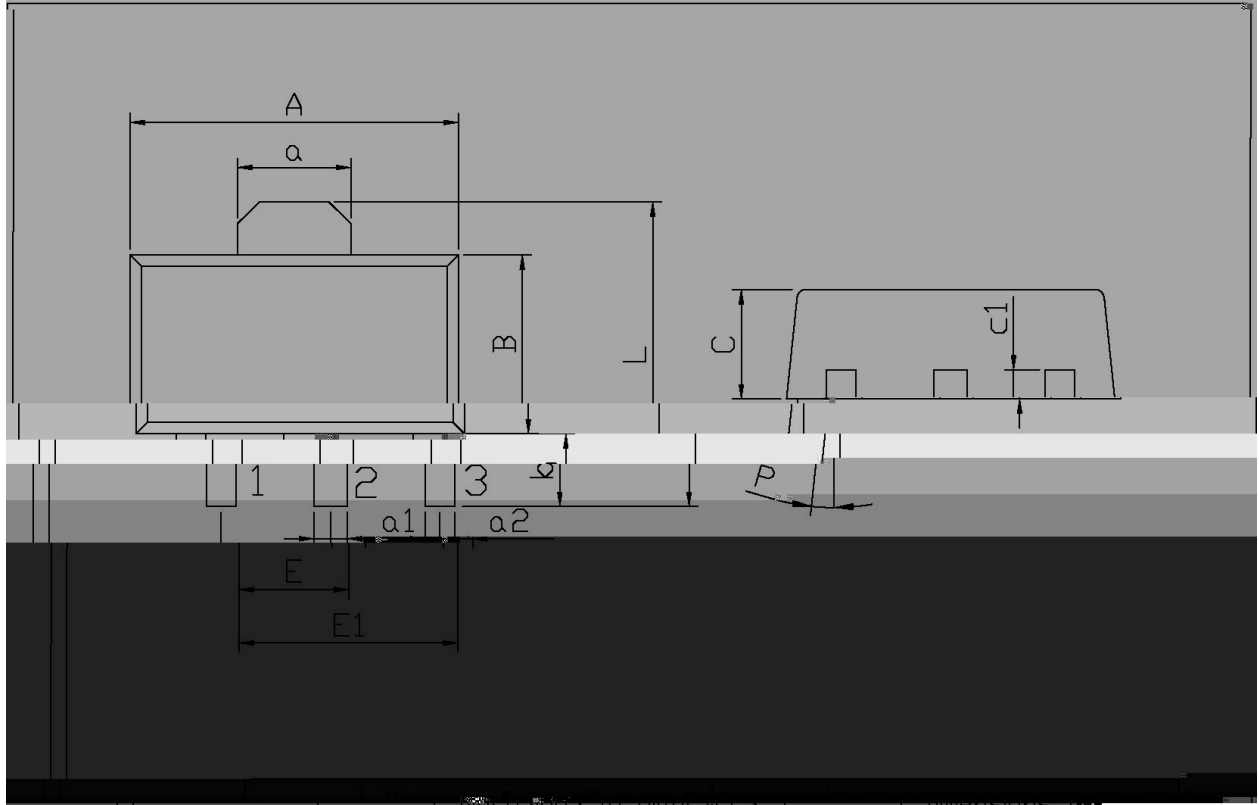
/ Electrical Characteristic Curve



/ Package Dimensions

SOT-89

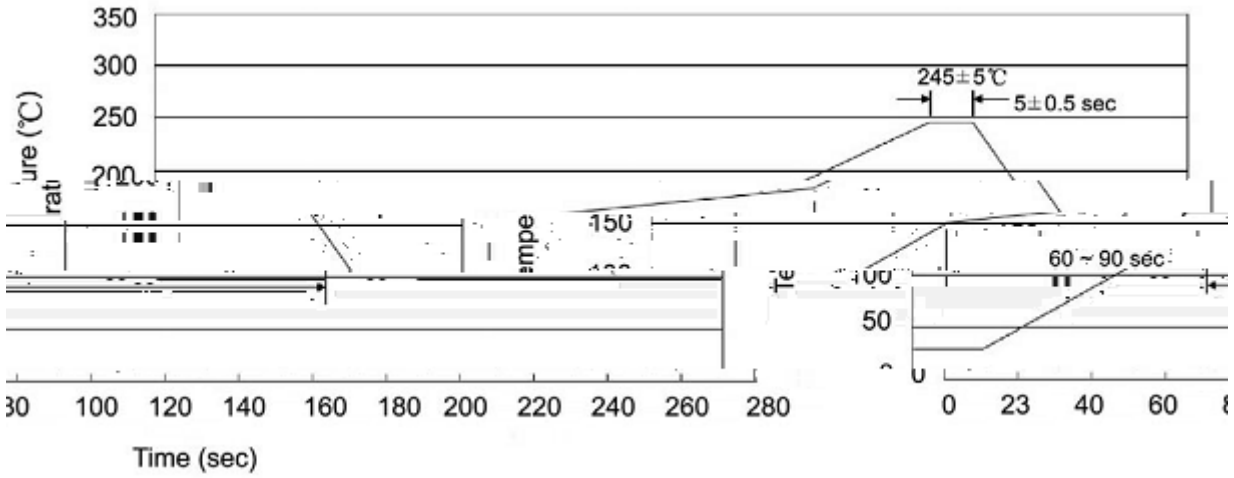
单位: mm



	min	Max		Min	Max
A	1.1	1.7	a1	0.35	0.55
B	2.25	2.5	a2	0.35	0.55
C	0.35	0.475	C	1.40	1.70



( ) /



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.            |

/ Resistance to Soldering Heat Test Conditions

260±5                      10±1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

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	s	