

**/ Descriptions**

JF K\$/O      E GE      Silicon NPN transistor in a SOT-89 Plastic Package.

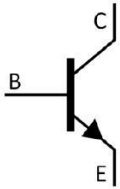
**/ Features**

#  
Low  $V_{CE(sat)}$ , high performance.

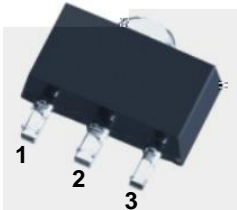
**/ Applications**

Audio frequency output amplifier.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

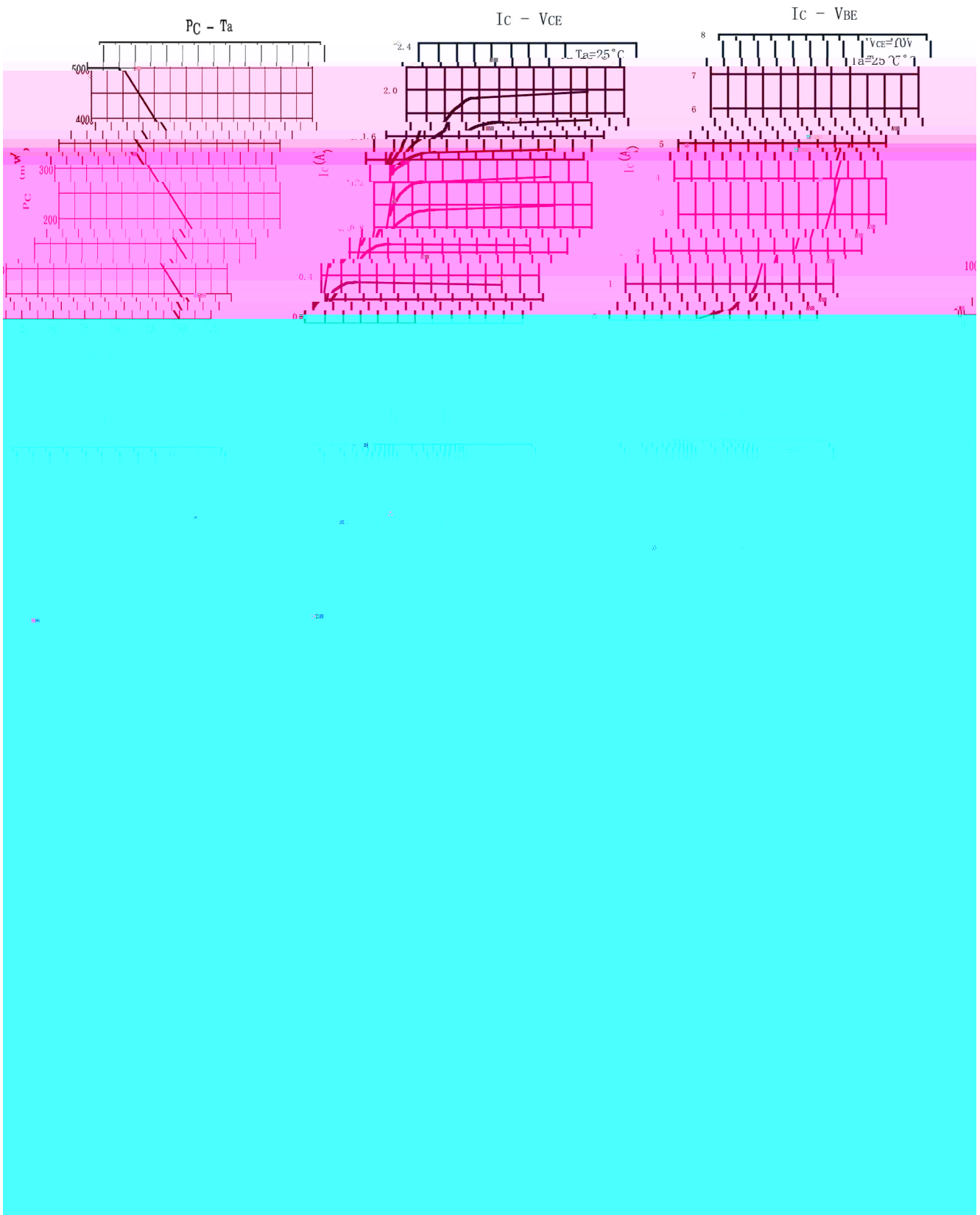
**/ Marking**

$h_{FE}$ Classifications Symbol	P	Q	R	S
$h_{FE}$ Range	180 270	230 380	340 600	560 1000
Marking	H65P* *	H65Q	H65R	H65S

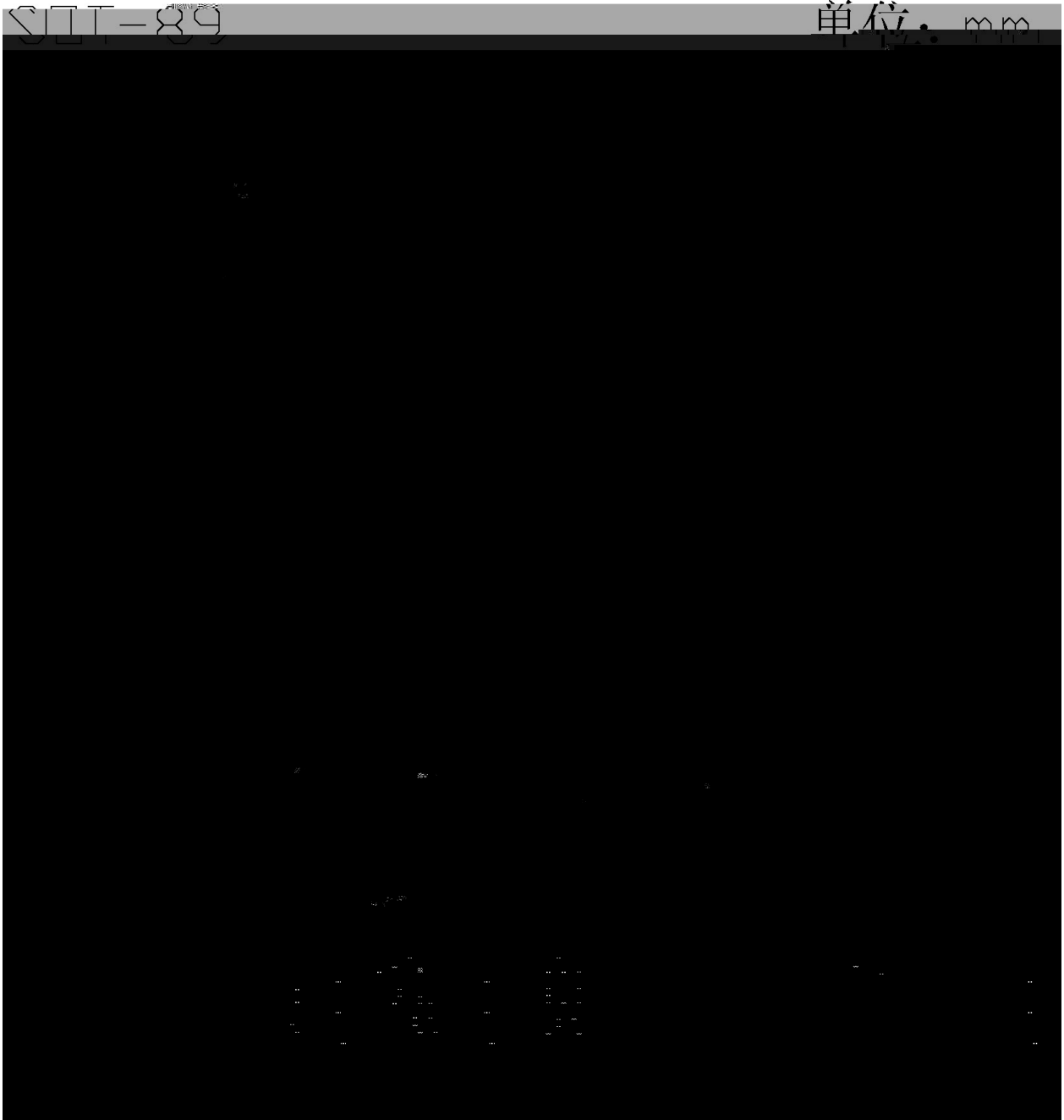
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	40	V
Collector to Emitter Voltage	$V_{CEO}$	20	V
Emitter to Base Voltage	$V_{EBO}$	7.0	V
Collector Current-Continuous	$I_C$	5.0	A
Collector Current -Continuous(Pluse)	$I_{CP}$	8.0	A
Collector Power Dissipation	$P_C$	500	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=1.0mA$ $I_B=0$	20			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=10 A$ $I_C=0$	7.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=10V$ $I_E=0$			0.1	A

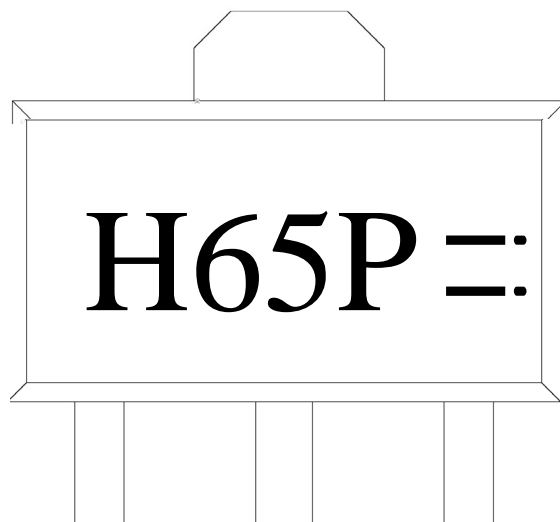
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



H

65

P

$h_{FE}$

!!

Note:

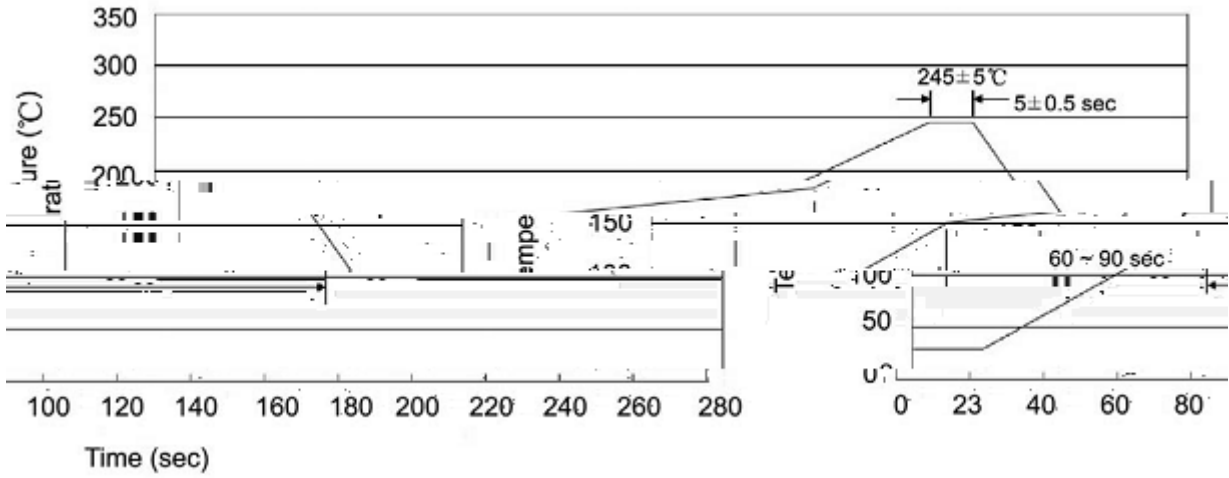
H: Company Code.

65: Product Type.

P  $h_{FE}$  Classifications Symbol

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

( ) / K\d g\iXk i\`Gif]`d`]fi`@`l`]\]fn`Jfd` \i`e`^ZGY\$=i\`z



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 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