

**/ Descriptions**

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

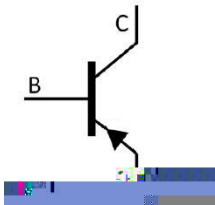
**/ Features**

# BK: +\* . -  
Small flat package, complementary to KTC4376.

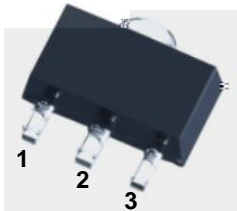
**/ Applications**

High current application.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

**/ Marking**

$h_{FE}$ Classifications Symbol	O	Y
$h_{FE}$ Range	100 200	160 320
Marking	HRO**	HR Y**

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-35	V
Collector to Emitter Voltage	$V_{CEO}$	-30	V
Emitter to Base Voltage	$V_{EBO}$	-5.0	V
Collector Current - Continuous	$I_C$	-800	mA
Collector Base – Continuous	$I_B$	-160	mA
Collector Power Dissipation	$P_C$	500	mW
Collector Power Dissipation*	* $P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

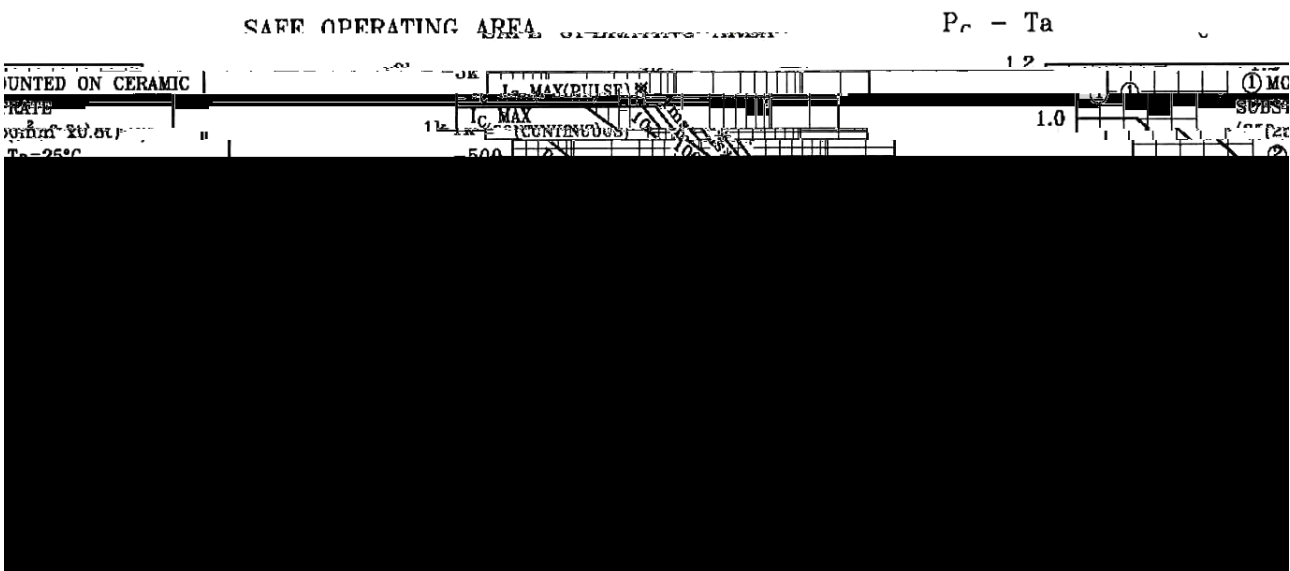
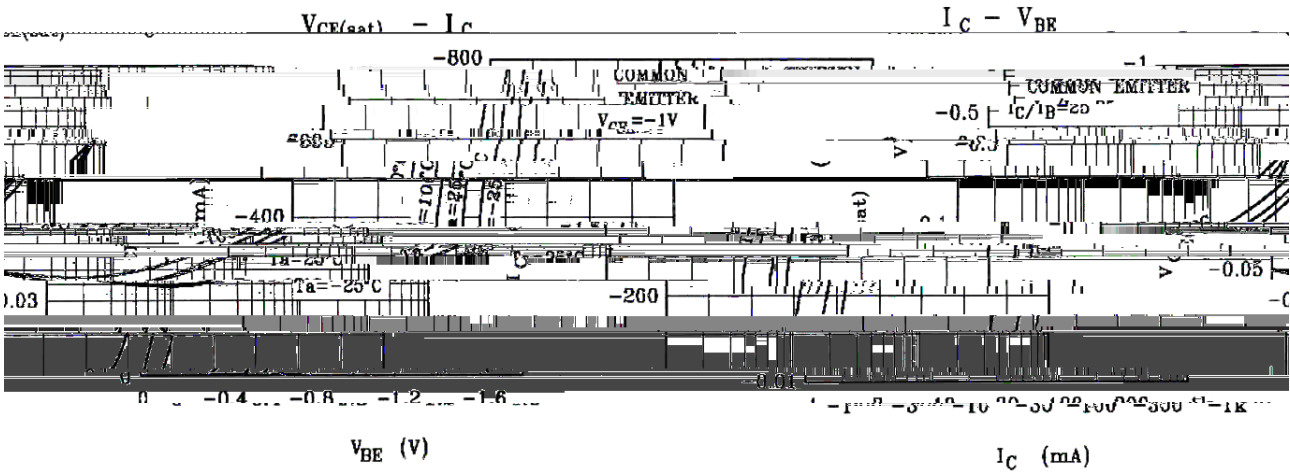
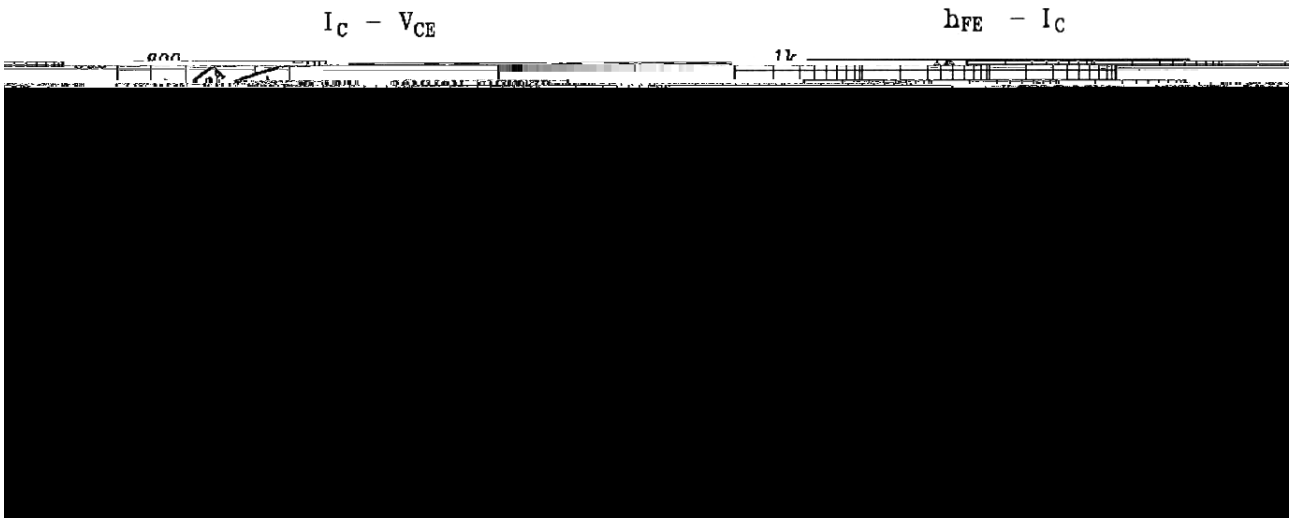
\*:mounted on ceramic substrate(250mm<sup>2</sup>×0.8t)

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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10mA$ $I_B=0$	-30			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-35V$ $I_E=0$			-0.1	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-0.1	$\mu A$

DC Current Gain  $h_{FE(1)}$   $V_{CE}$

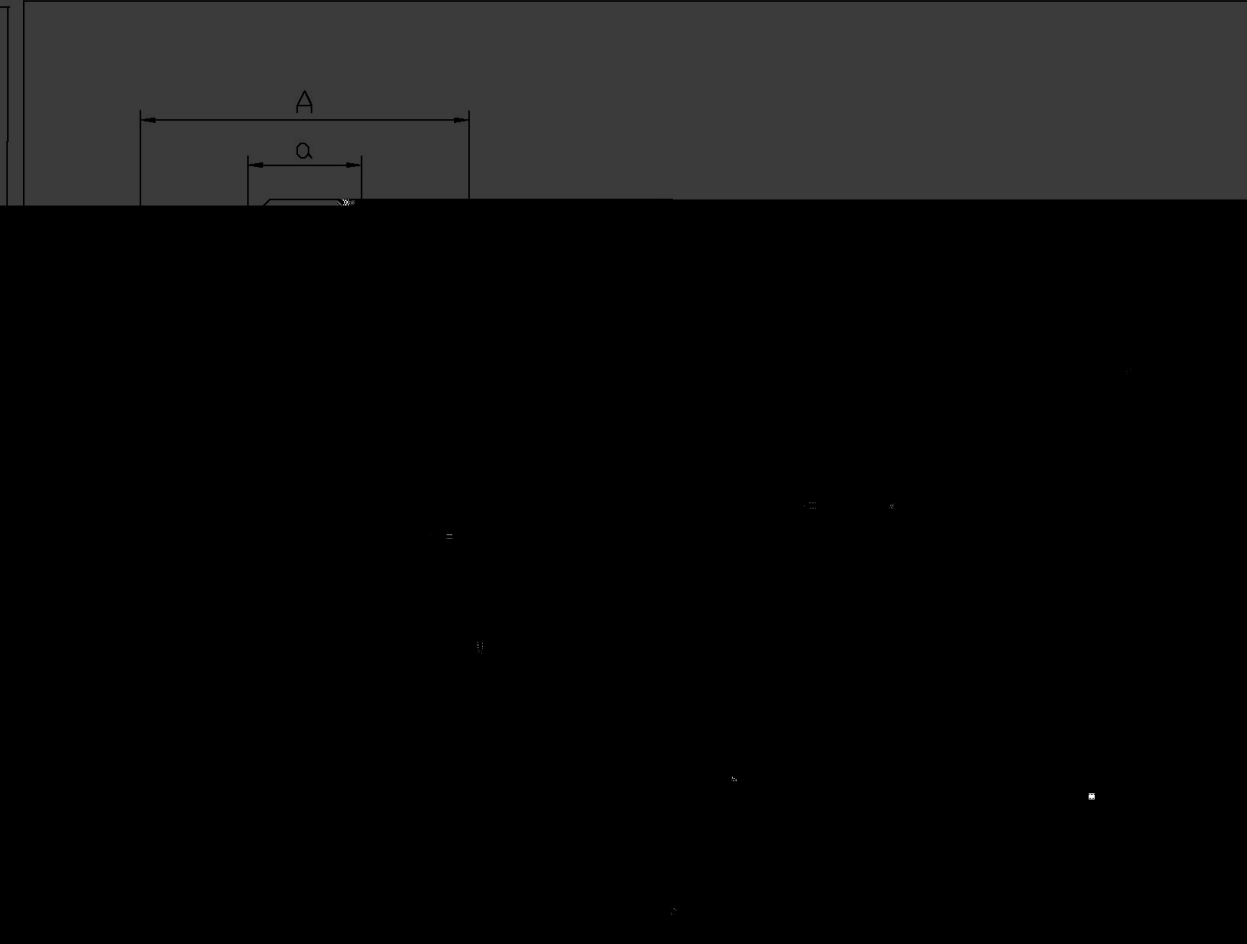
/ Electrical Characteristic Curve



**/ Package Dimensions**

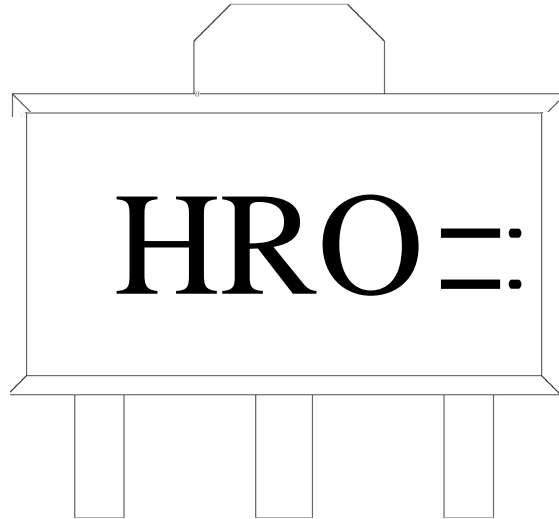
STU-89

单位: mm



E	1.40	1.70	C	1.40	1.70
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
F1.	2.50	3.20			
b	0.80	1.20			

**/ Marking Instructions**



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Note:

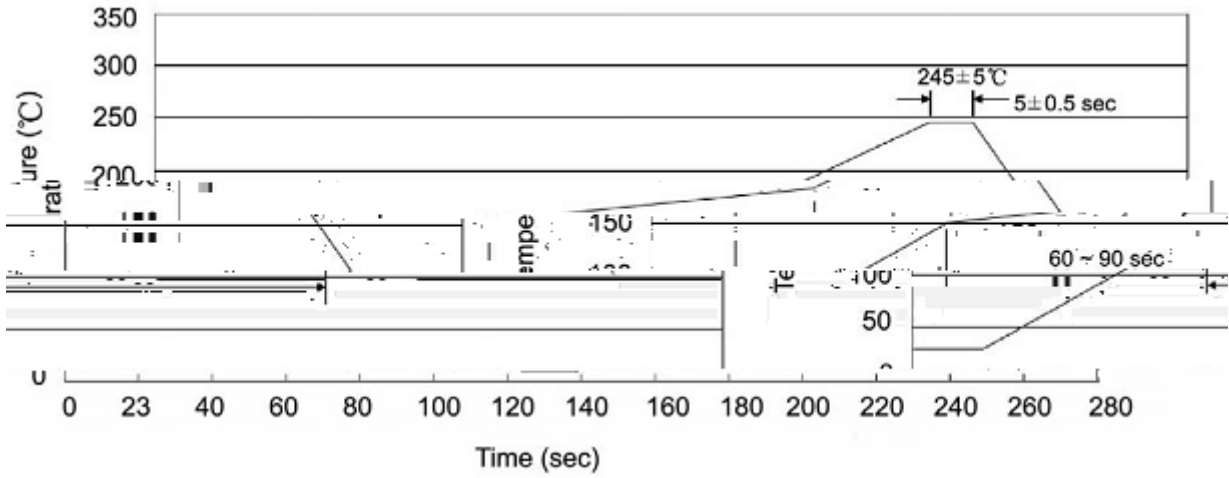
H:        Company Code.

R:        Product Type.

O:         $h_{FE}$  Classifications    Symbol

\*\*:

( ) /



Note:

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

/ Resistance to Soldering Heat Test Conditions

260±5 °C      10±1 sec.      Temp.:260±5 °C      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	180×120×180	385×257×392

/ Notices