

SOT-89

NPN

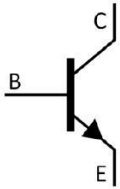
Silicon NPN transistor in a SOT-89 Plastic Package.

KTA1666

Low saturation voltage, high speed switching time, small flat package Complementary to KTA1666.
HF Product.

Power amplifier and switching applications.

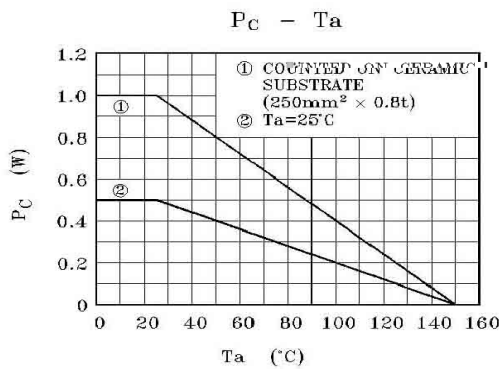
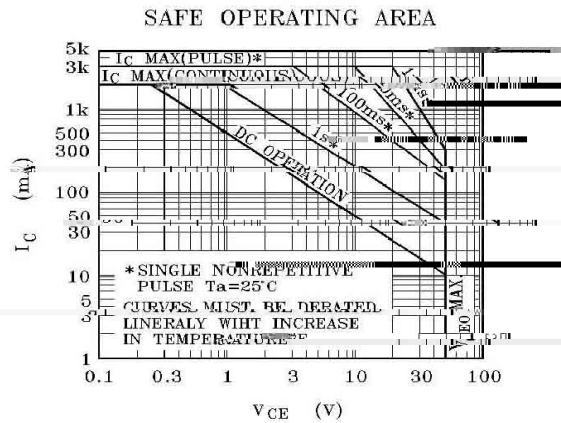
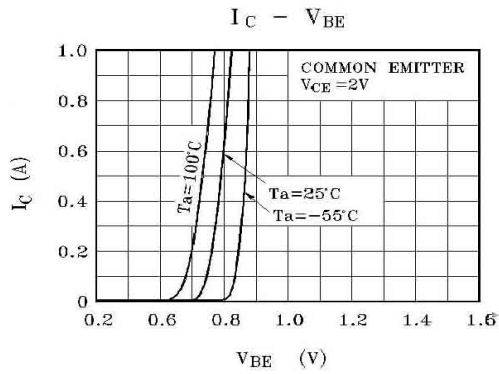
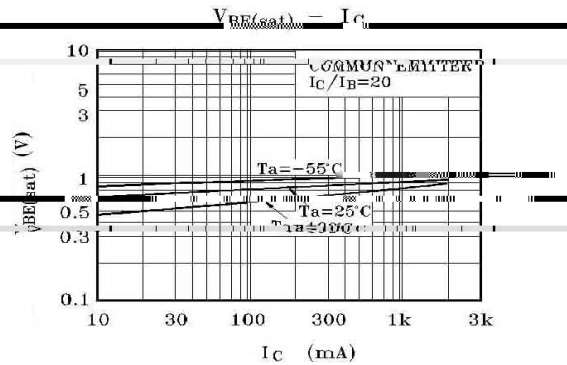
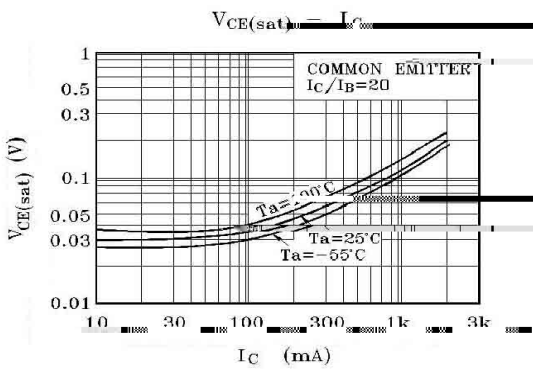
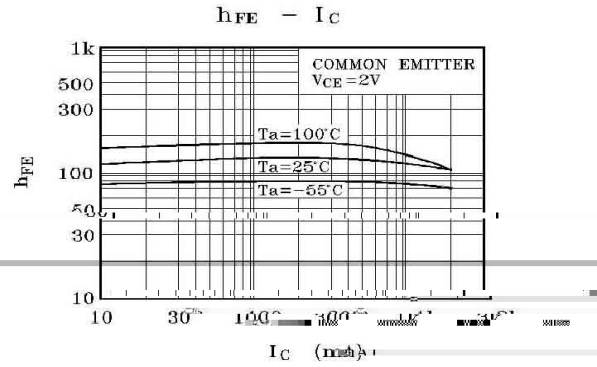
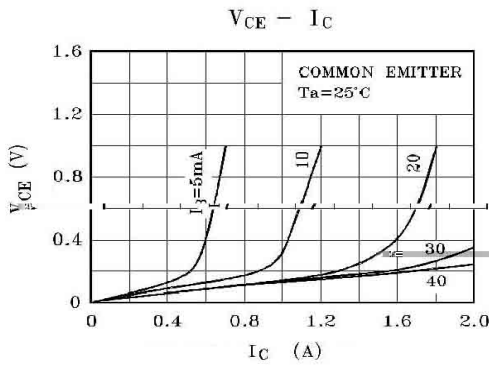
/ Equivalent Circuit



PIN1 Base PIN 2 Collector PIN 3

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}	5.0	V
Collector Current - Continuous	I_C	2.0	A
Collector Base – Continuous	I_B	0.4	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation*	* P_C	1	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}		

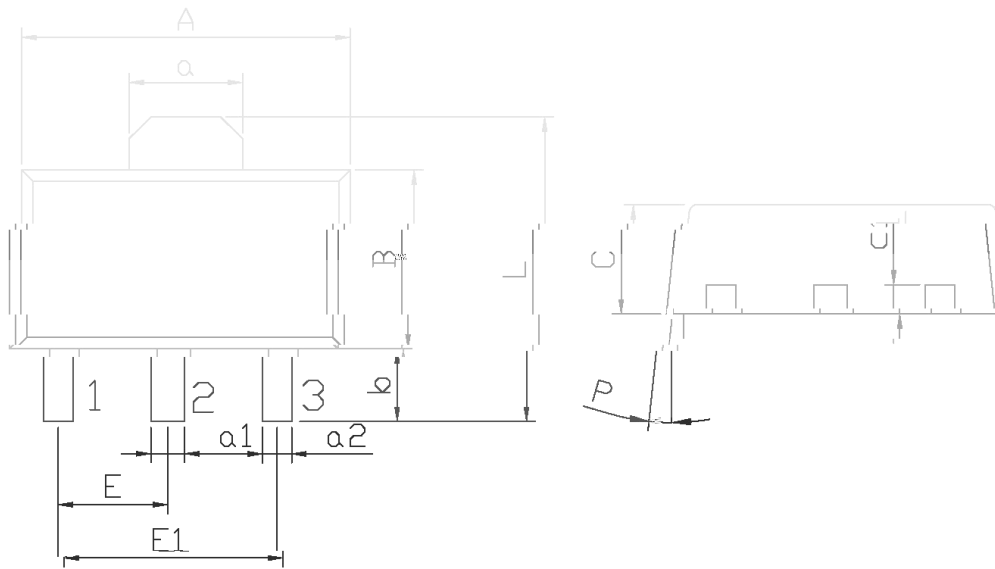
/ Electrical Characteristic Curve



/ Package Dimensions

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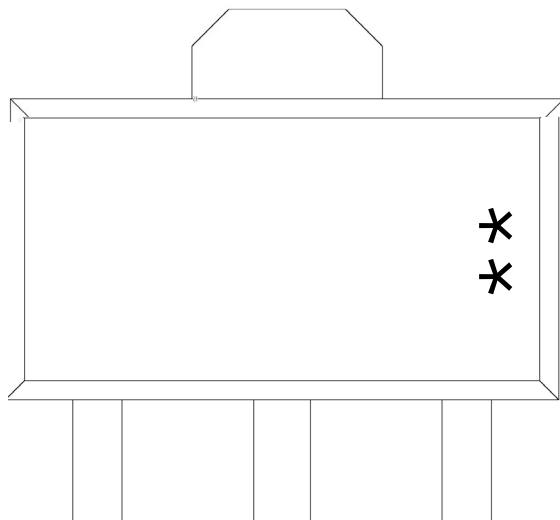
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Symbol	Dimensions In Millimeters			Symbol	Dimensions In Millimeters		
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A	4.4	4.7	a1	0.36	0.56
B	2.35	2.65	a2	0.30	0.50
C	3.878	4.479	c1	1.40	1.70
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
E1	2.80	3.20			

/ Marking Instructions



H

M

O h_{FE}

**

Note:

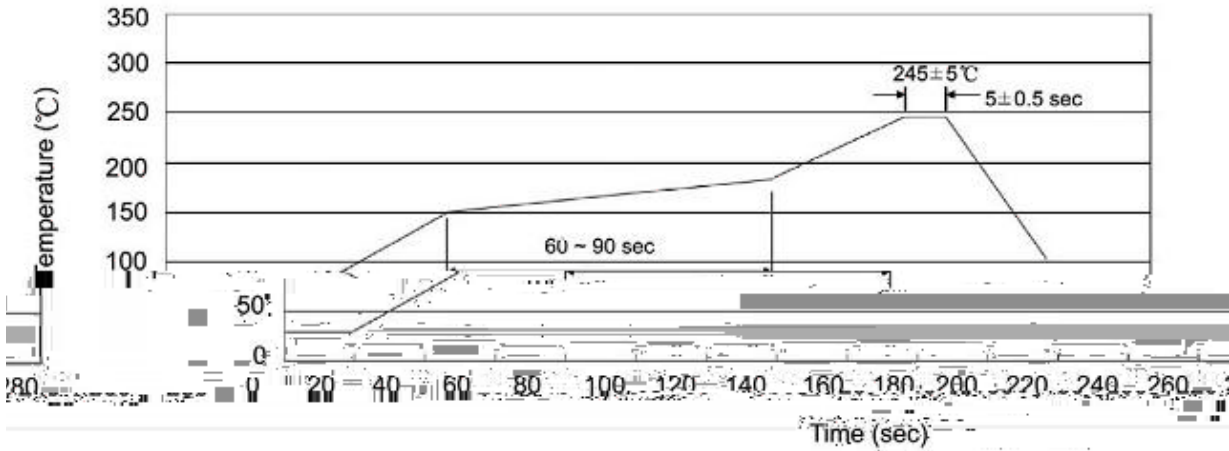
H: Company Code.

M: Product Type.

O h_{FE} Classifications Symbol

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Note:

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|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , 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 ³)		
	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	6	42,000	7 ×12	180×120×180	390×385×205

/ Notices