

/ Descriptions

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

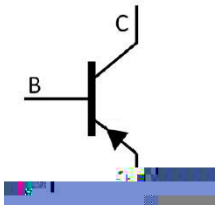
/ Features

(N # BK: +* . ,
1W(*mounted on ceramic substrate),complementary pair with KTC4375.

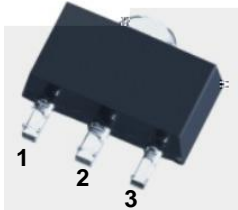
/ Applications

High current applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ Marking

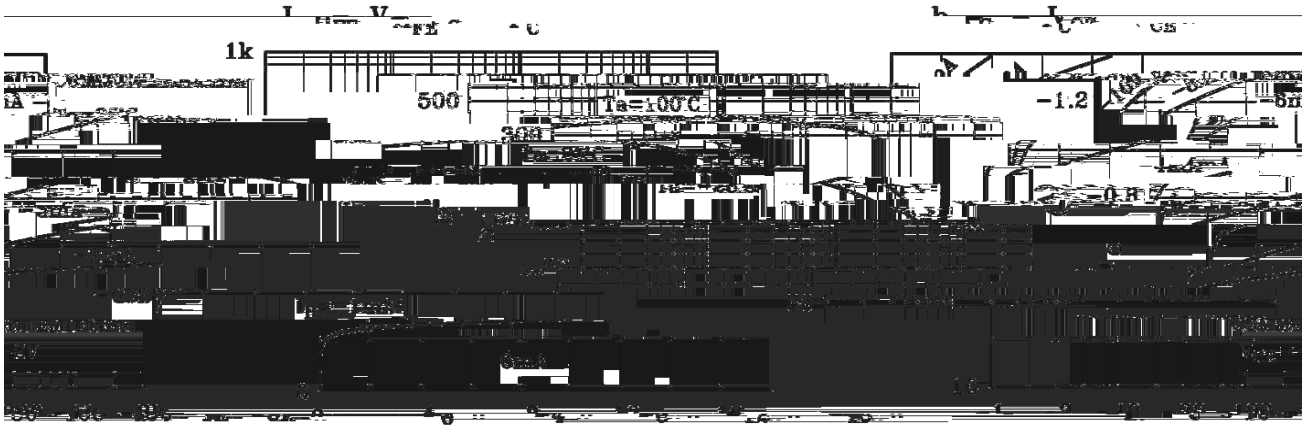
h_{FE} Classifications Symbol	O	Y
h_{FE} Range	100 200	160 320
Marking	HIO * *	HIY * *

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-1.5	A
Collector Base – Continuous	I_B	-0.3	A
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	

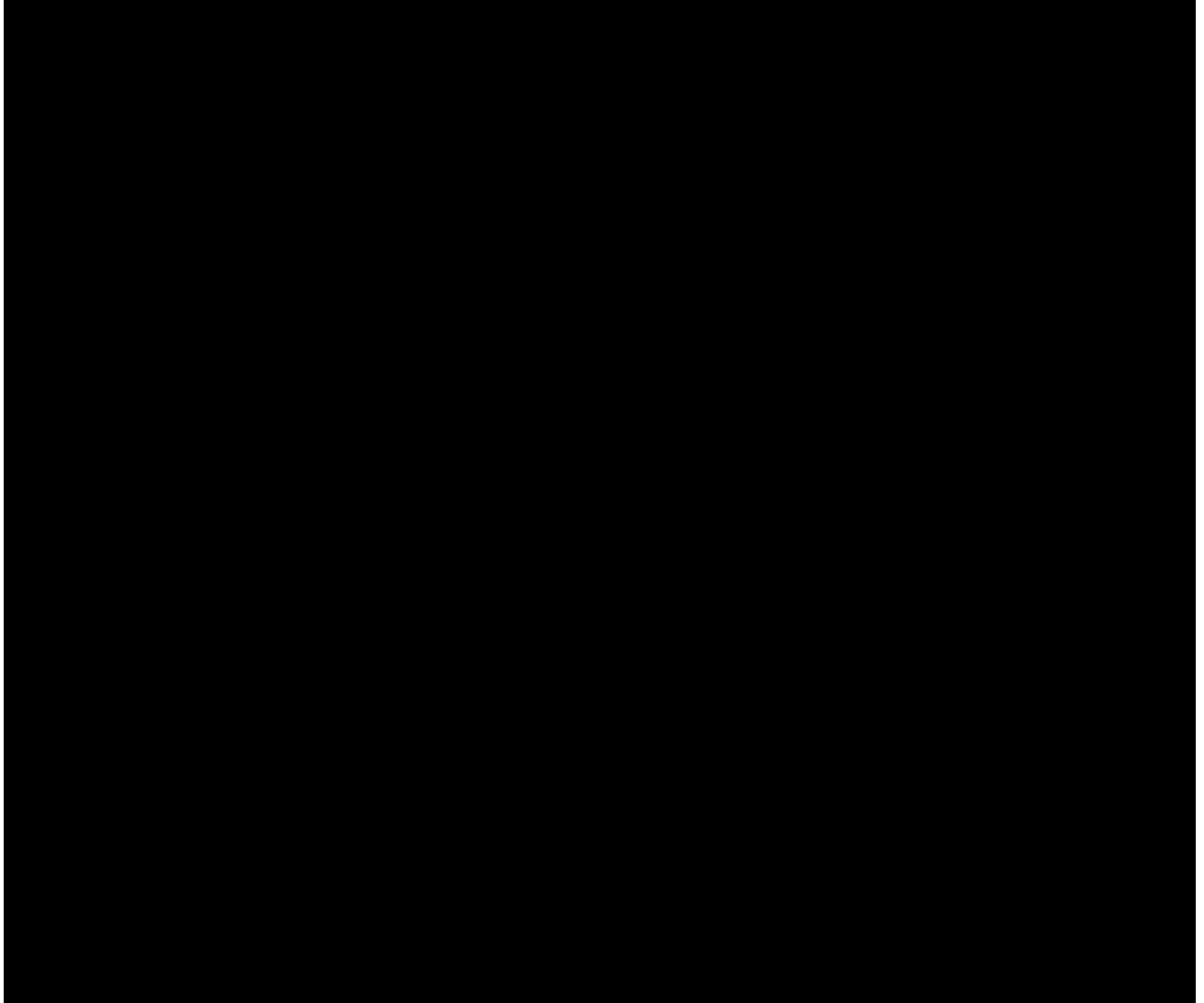
*BRKTA1663 mounted on ceramic substrate (250mm² × 0.8t)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -10mA$ $I_B = 0$	-30			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -1.0mA$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -30V$ $I_E = 0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB} = -5.0V$ $I_C = 0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -2.0V$ $I_C = -500mA$	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1.5A$ $I_B = -0.03A$			-2.0	V
Base to Emitter Voltage	V_{BE}	$V_{CE} = -2.0V$ $I_C = -500mA$			-1.0	V
Transition Frequency	f_T	$V_{CE} = -2.0V$ $I_C = -500mA$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$ $I_E = 0$ $f = 1.0MHz$	V		50	pF

/ Electrical Characteristic Curve



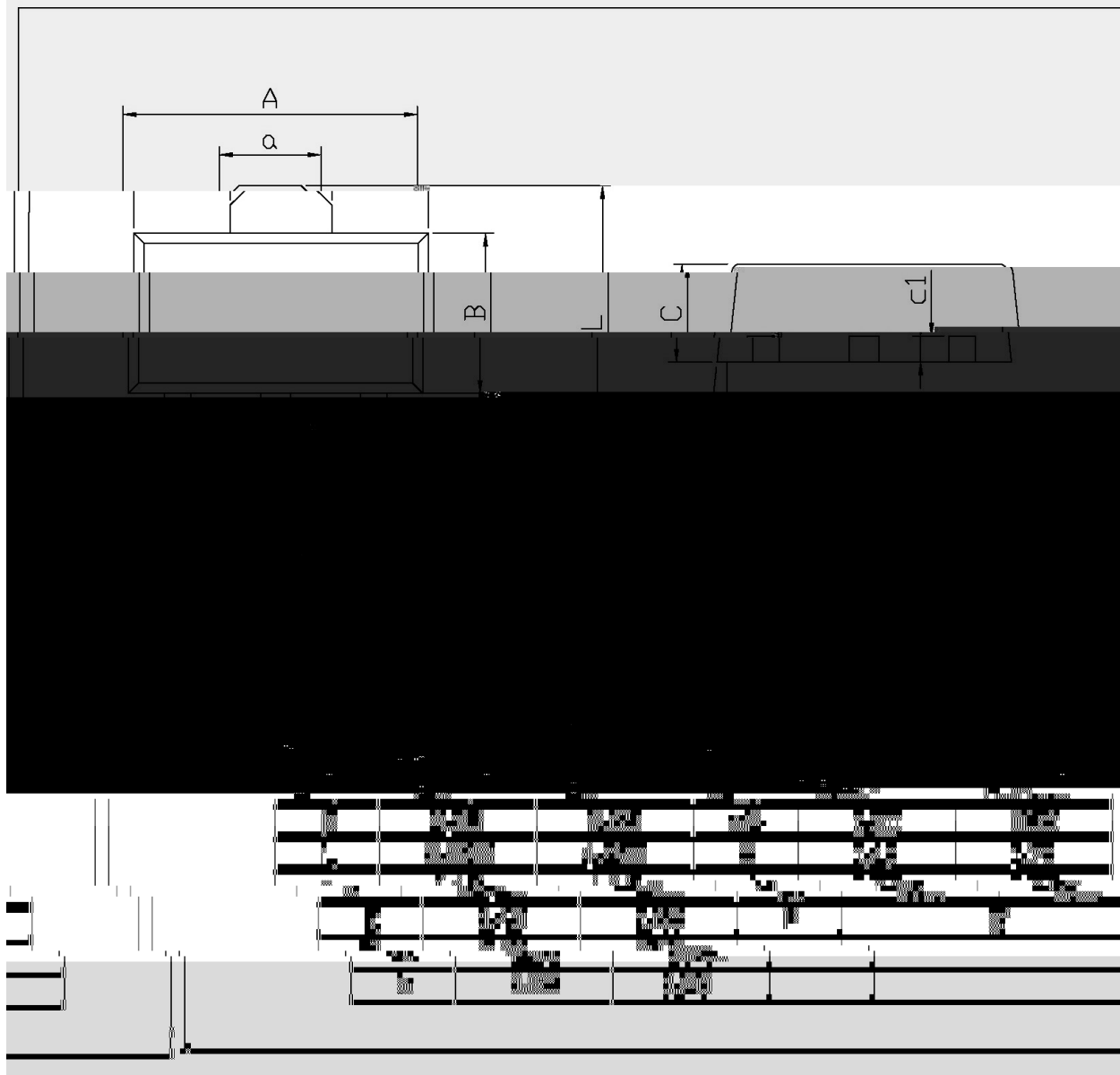
I_C (mA) V_{CE} (V)



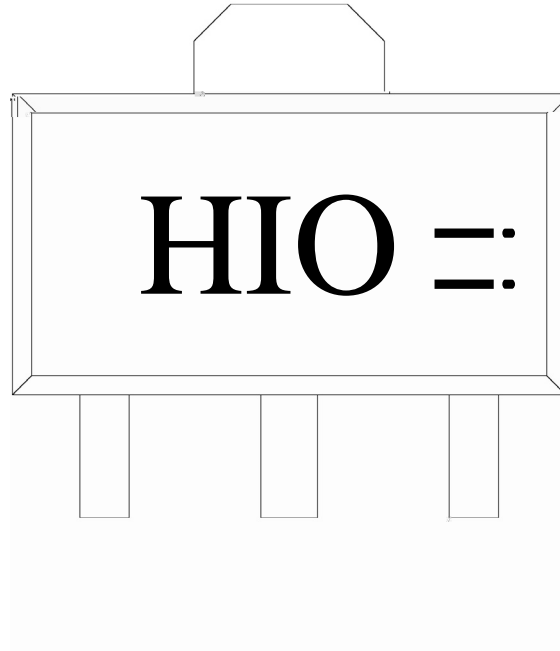
/ Package Dimensions

SOT-89

单位: mm



/ Marking Instructions



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Note:

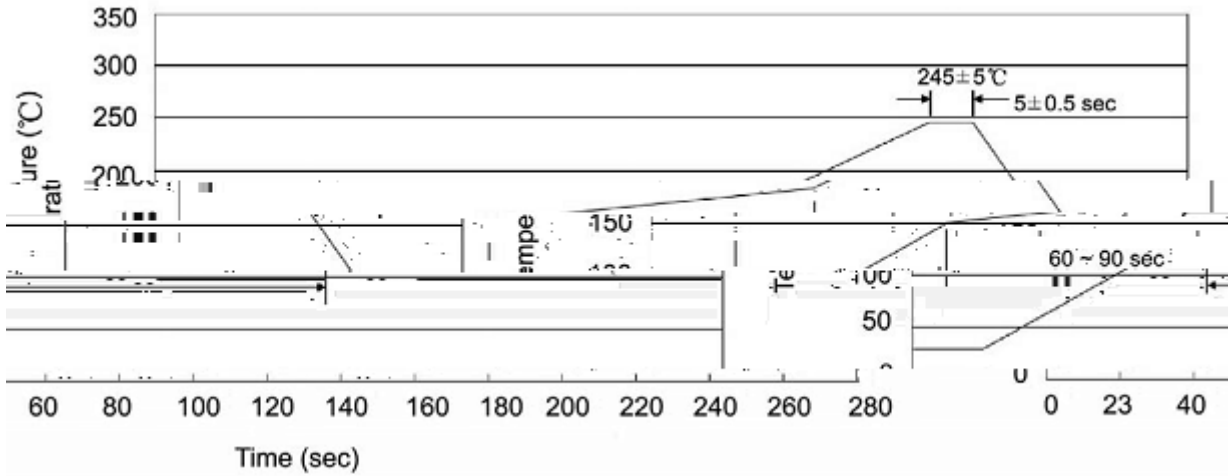
H: Company Code.

I: Product Type.

O: h_{FE} Classifications Symbol

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

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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 ³)		
	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