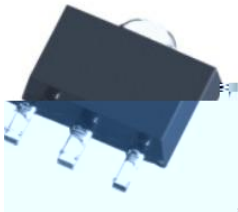
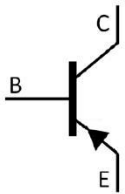


SOT-89          PNP          Silicon PNP transistor in a SOT-89 Plastic Package.

### KTC4379

Low saturation voltage, high speed switching time, small flat package, Complementary to KTC4379.  
 HF Product.

Power amplifier and switching applications.



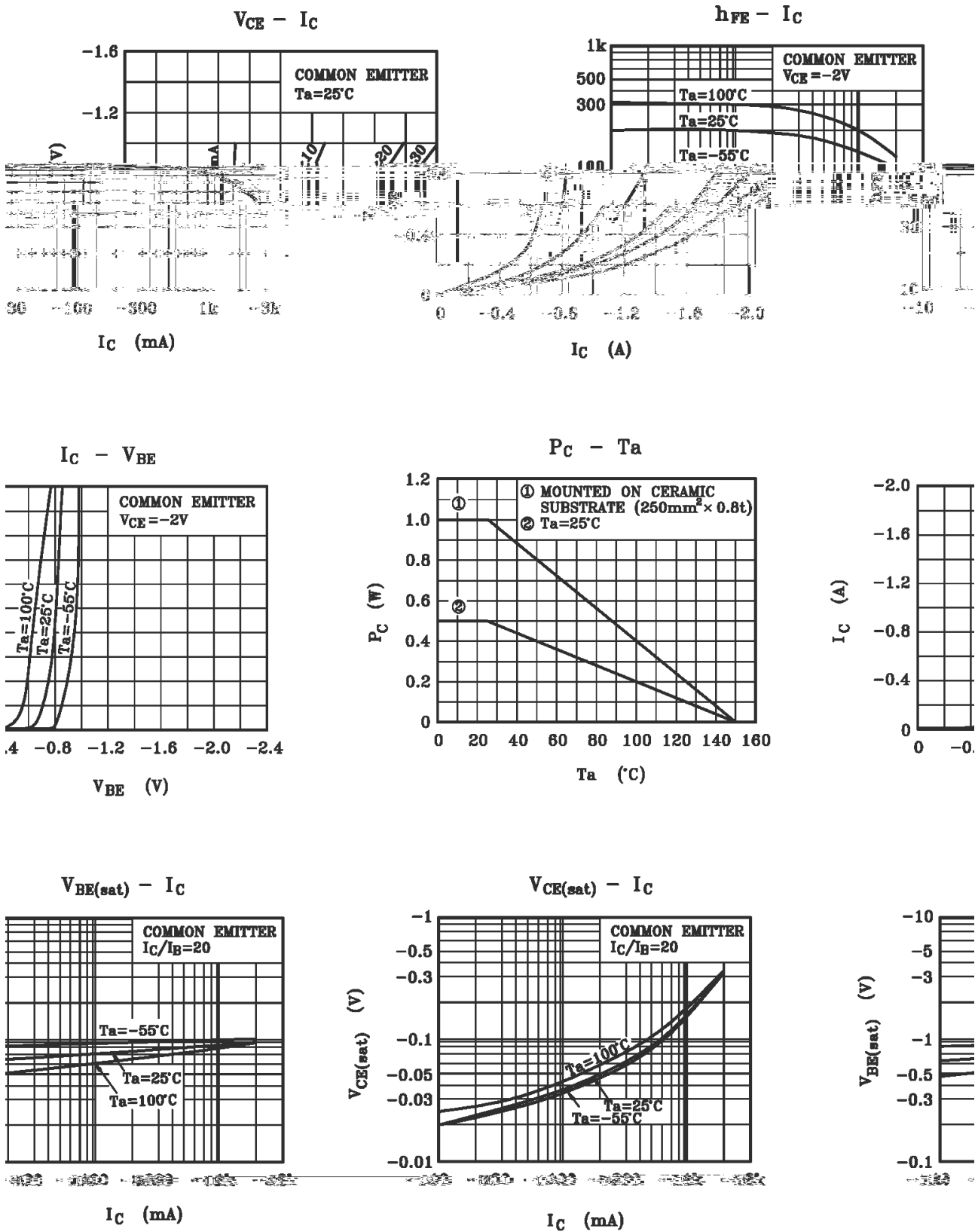
PIN1 Base          PIN 2 Collector          PIN 3 Emitter

$h_{FE}$ Classifications Symbol	O	Y
$h_{FE}$ Range	70 140	120 240
Marking	HNO *	HNY *

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*	* $P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

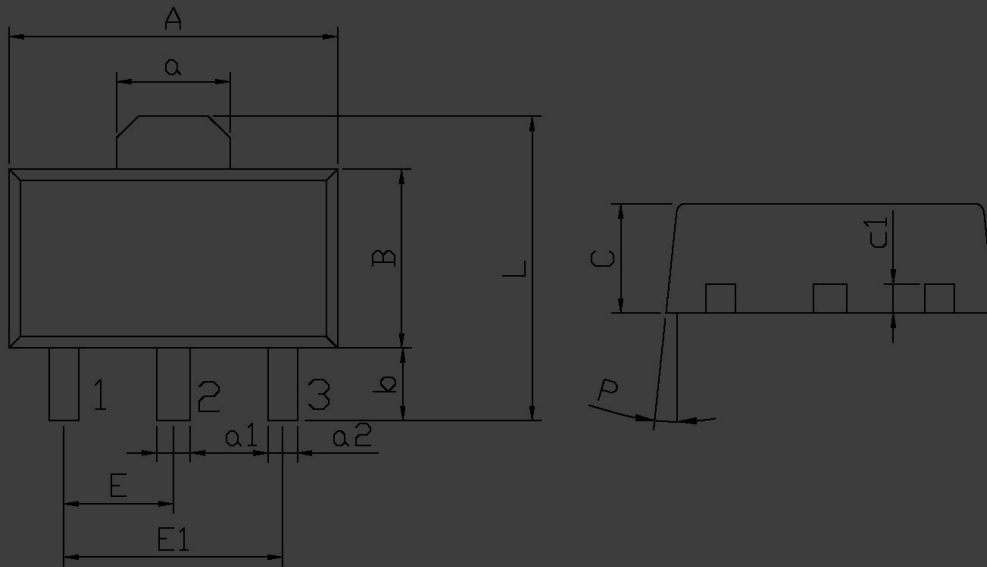
\*KTA1666 mounted on ceramic substrate(250mm<sup>2</sup>×0.8t)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-50V$ $I_E=0$			-0.1	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-0.1	$\mu A$
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10mA$ $I_B=0$	-50			V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V$ $I_C=-0.5A$	70		240	
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-1.5A$	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0A$ $I_B=-0.05A$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1.0A$ $I_B=-0.05A$			-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-2.0V$ $I_C=-0.5A$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V$ $I_E=0$ $f=1MHz$		40		pF
Turn-On Time	$t_{on}$	$-I_{B1}=I_{B2}=0.05A$		0.1		$\mu S$
Storage Time	$t_{stg}$			1.0		$\mu S$
Fall Time	$t_f$			0.1		$\mu S$

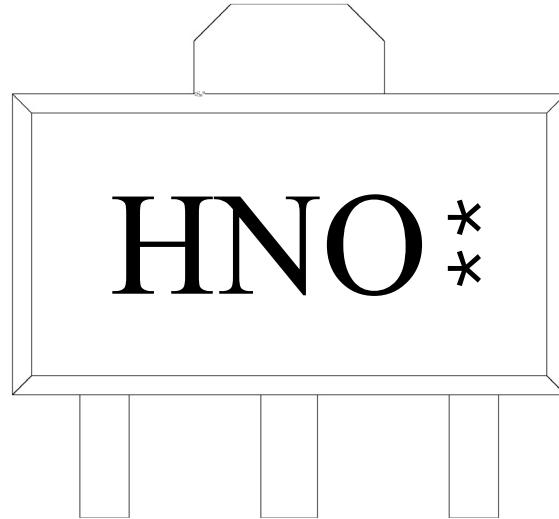


SOT-89

单位: mm



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	4.4	4.7	a1	0.36	0.56
B	2.35	2.65	a2	0.30	0.50
L	3.878	4.478	C	1.40	1.70
	1.15	1.65		0.25	0.40



H

N

O

$h_{FE}$

\*\*

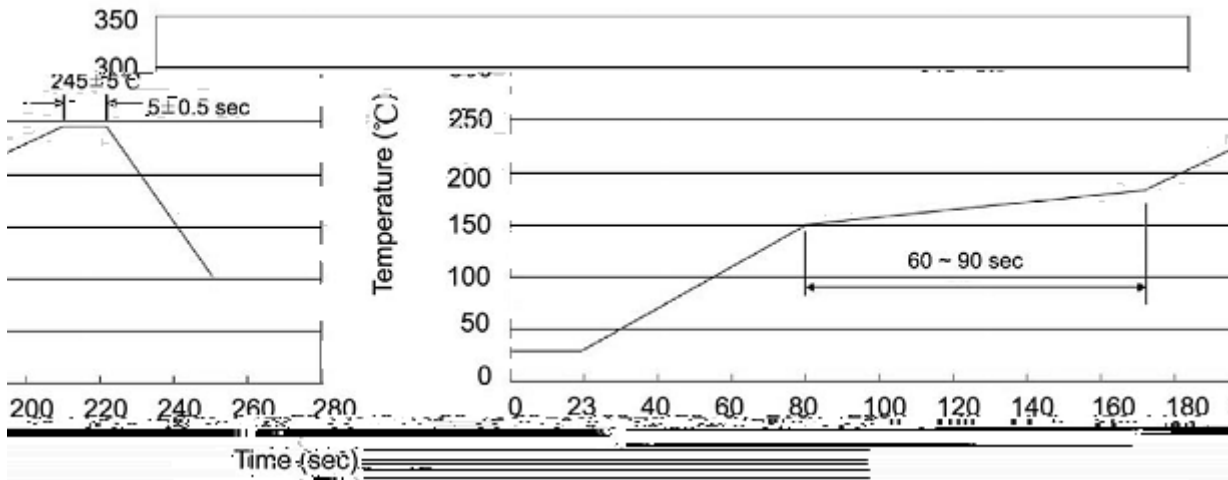
Note:

H: Company Code.

N: Product Type.

O  $h_{FE}$  Classifications Symbol

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

**Temperature Profile for IR Reflow Soldering(Pb-Free)**


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.            |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ 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