

/ Descriptions

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

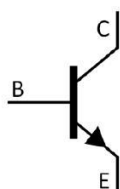
/ Features

KTB1260
Small flat package,complements the KTB1260.

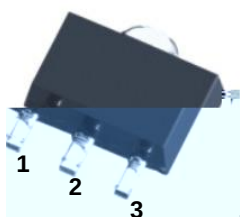
/ Applications

General purpose application.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ Marking

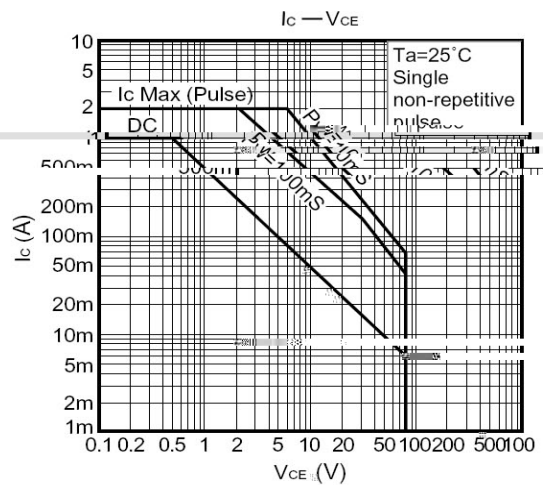
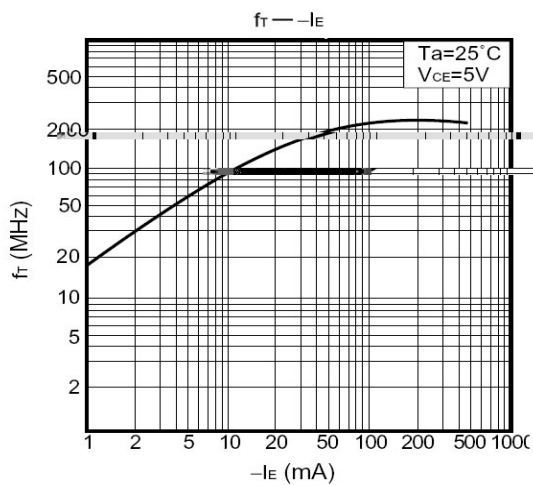
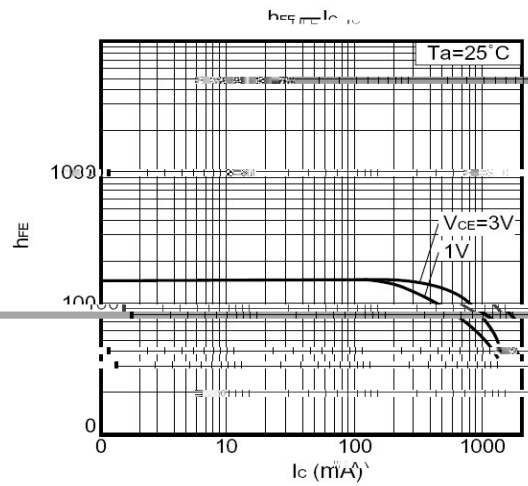
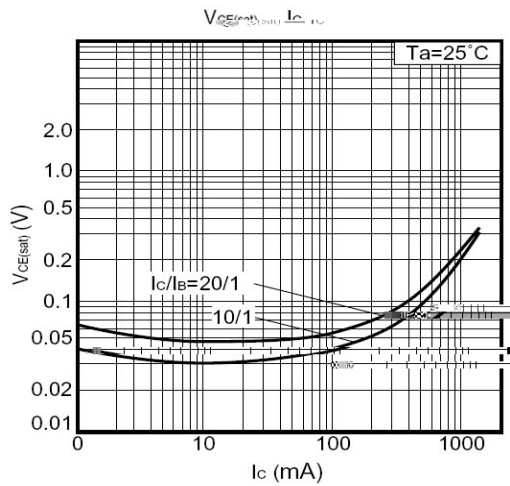
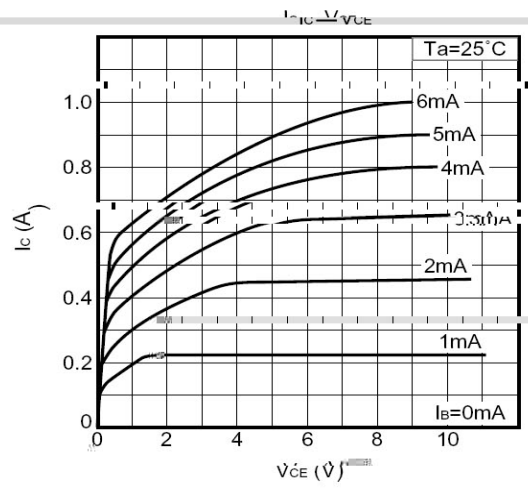
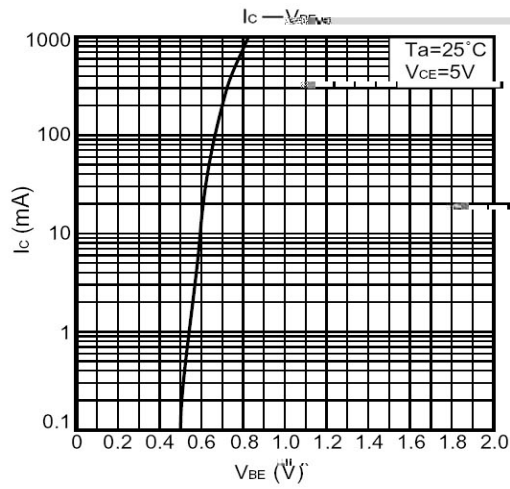
h_{FE} Classifications Symbol	O	Y	GR
h_{FE} Range	70-140	120-240	200 400
Marking	HZO * *	HZY * *	HZG * *

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	1.0	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	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=80V$ $I_E=0$			1.0	A
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=4.0V$ $I_C=0$			1.0	A
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA$ $I_B=0$	80			V
DC Current Gain	h_{FE}	$V_{CE}=3V$ $I_C=500mA$	70		400	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$ $I_B=20mA$			0.4	V
Transition Frequency	f_T	$V_{CE}=10V$ $f=100MHz$ $I_E=-50mA$		100		MHz
Collector Output Capacitance	C_{ob}	V_{CBCE}				

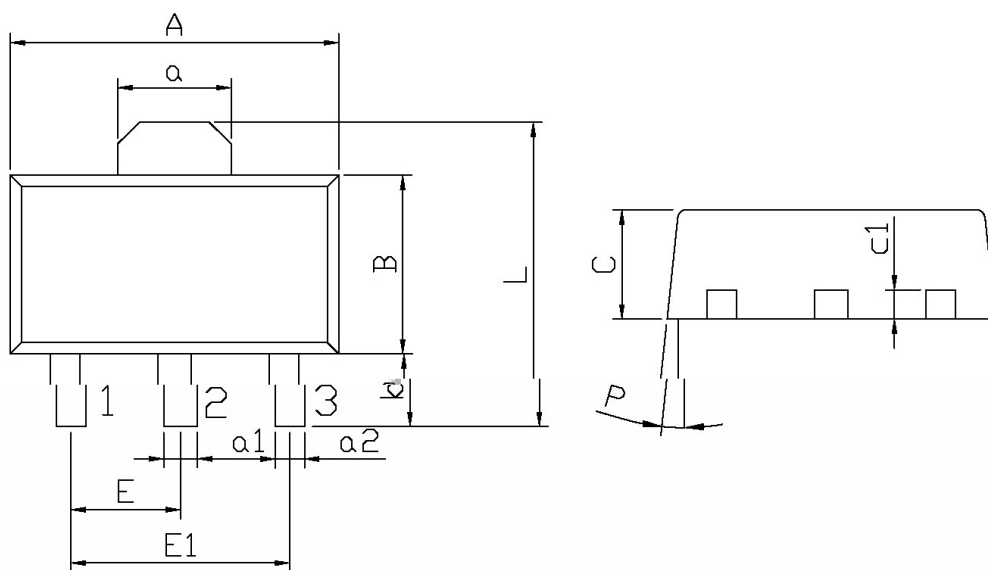
/ Electrical Characteristic Curve



/ Package Dimensions

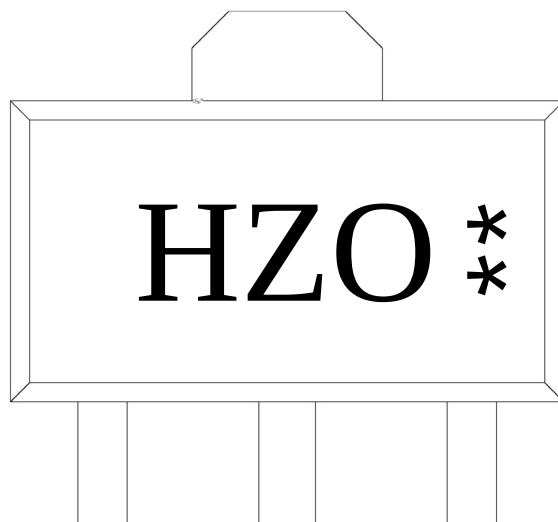
SOT-89

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.4	4.7	a1	2.50	2.50
a	2.35	2.65	a2	0.30	0.50
B	3.8/8	4.478	C	1.40	1.70
c	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
E1	3.80	4.20			

/ Marking Instructions



H

Z

O

h_{FE}

**

Note:

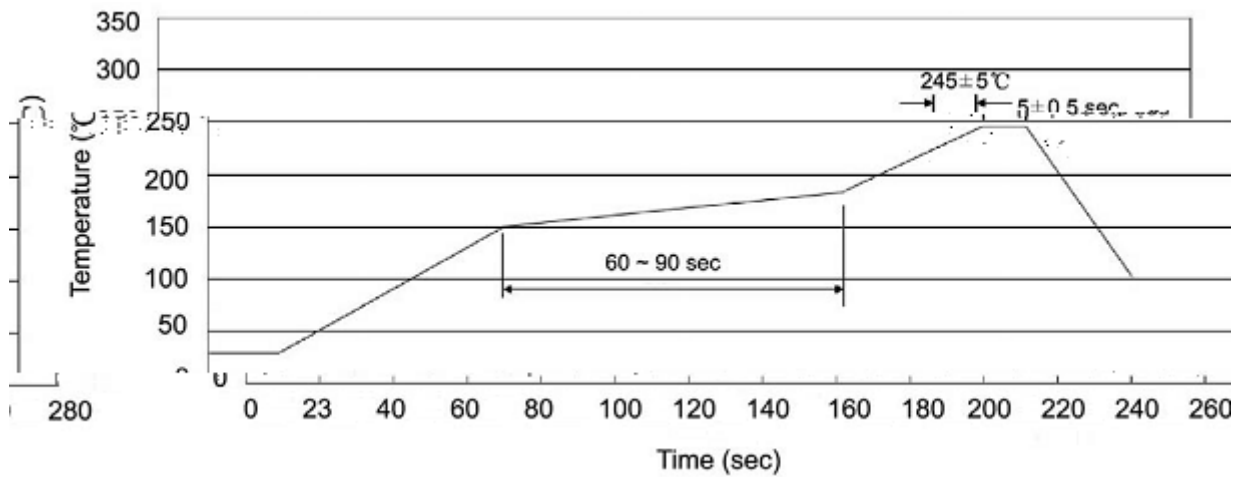
H: Company Code.

Z: 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱

/ Notices