

/ Descriptions

SOT-23

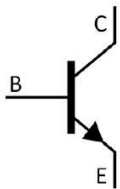
NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

/ F

Low current, Low voltage, HF Product.

General purpose amplifier and switching.



PIN 1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Range	100~300
Marking	• H1A

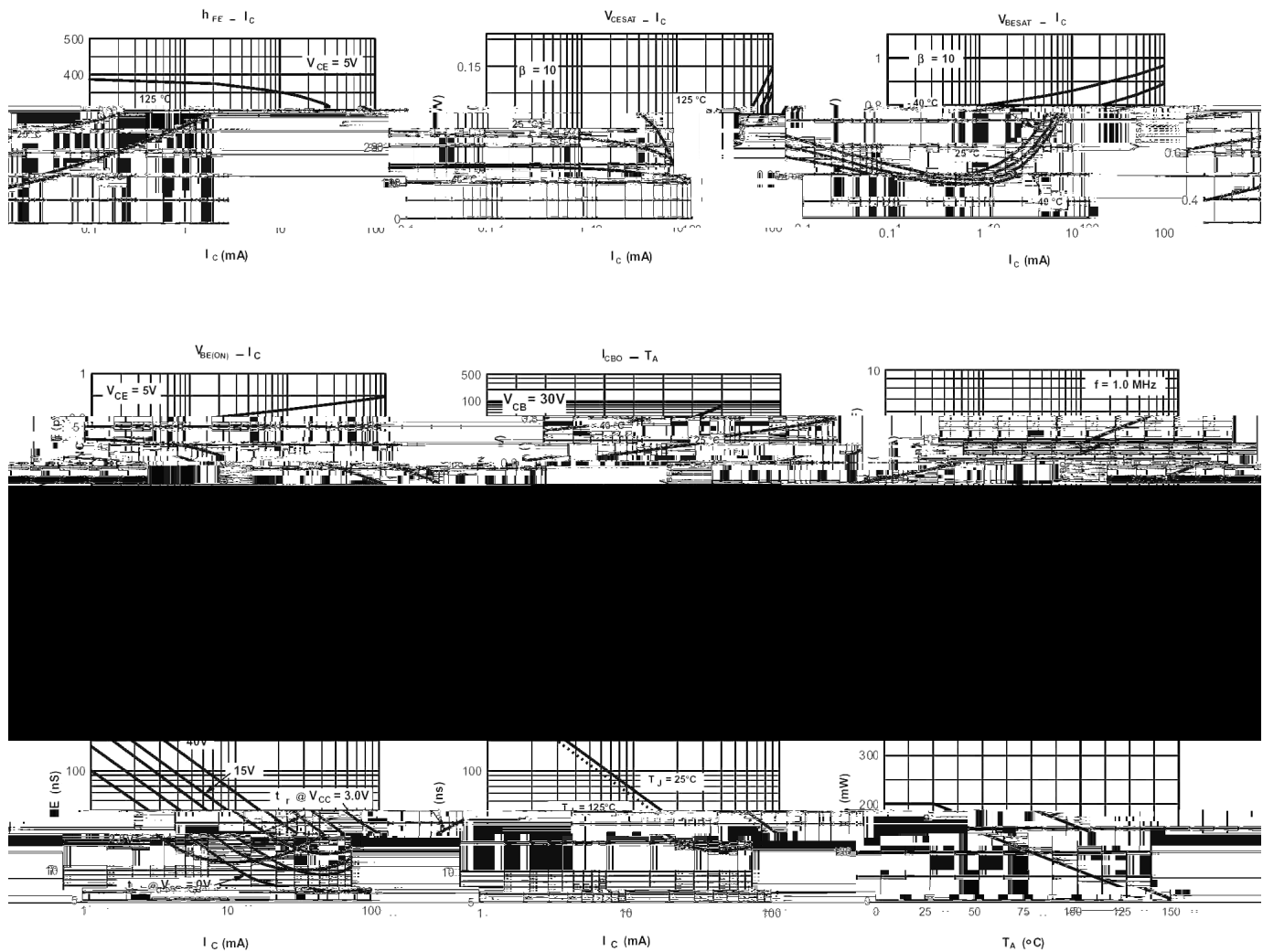
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	40	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current	I_C	200	mA
Collector Power Dissipation	P_C	200	mW
Collector Power Dissipation	$*P_C$	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

* 7×5×0.6mm

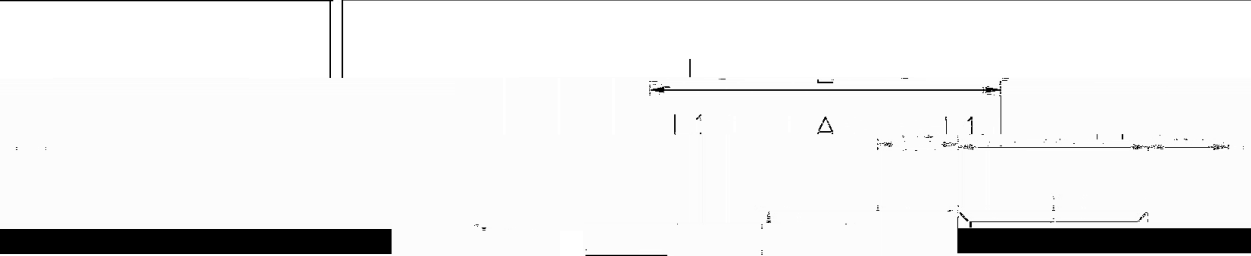
*When mounted on a 7×5×0.6mm ceramic board

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base						

/ Electrical Characteristic Curve

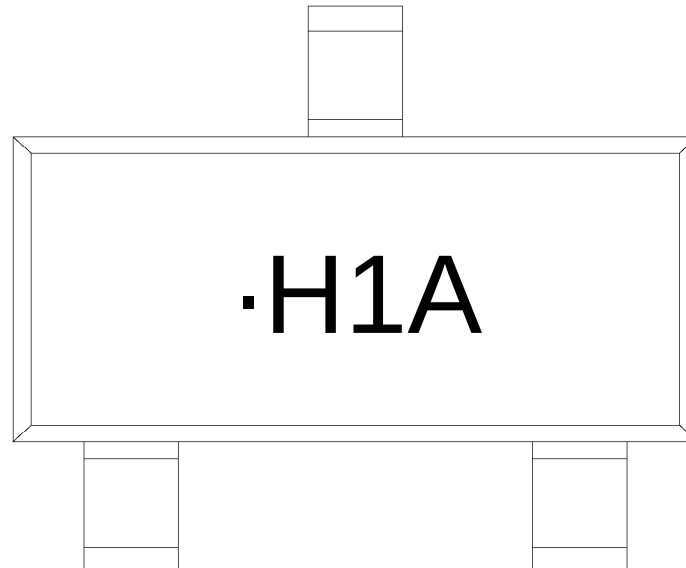


/ Package Dimensions



Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
A	0.45	0.65	A	0.45	0.65
B	0.20	0.40	B	0.20	0.40
C	0.10	0.20	C	0.10	0.20
D	0.20	0.40	D	0.20	0.40
E	0.20	0.40	E	0.20	0.40
F	0.20	0.40	F	0.20	0.40
G	0.20	0.40	G	0.20	0.40
H	0.20	0.40	H	0.20	0.40
I	0.20	0.40	I	0.20	0.40
J	0.20	0.40	J	0.20	0.40
K	0.20	0.40	K	0.20	0.40
L	0.20	0.40	L	0.20	0.40
M	0.20	0.40	M	0.20	0.40
N	0.20	0.40	N	0.20	0.40
O	0.20	0.40	O	0.20	0.40
P	0.20	0.40	P	0.20	0.40
Q	0.20	0.40	Q	0.20	0.40
R	0.20	0.40	R	0.20	0.40
S	0.20	0.40	S	0.20	0.40
T	0.20	0.40	T	0.20	0.40
U	0.20	0.40	U	0.20	0.40
V	0.20	0.40	V	0.20	0.40
W	0.20	0.40	W	0.20	0.40
X	0.20	0.40	X	0.20	0.40
Y	0.20	0.40	Y	0.20	0.40
Z	0.20	0.40	Z	0.20	0.40

/ Marking Instructions



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H

1A

Note:

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Identify

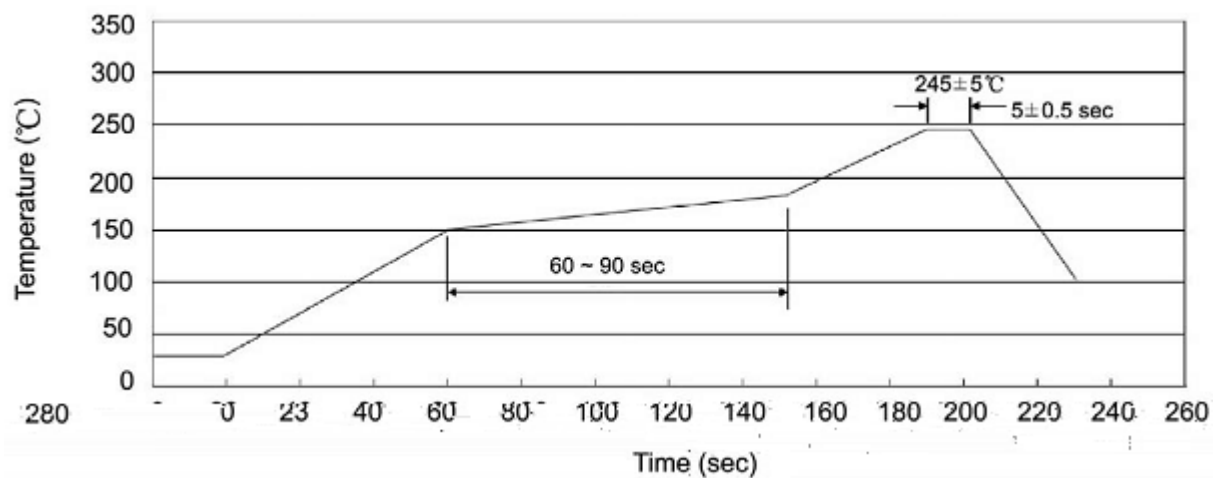
H

Company Code

1A

Product Type Code

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



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

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

/ Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

卷盘包装 / REEL

Package Type	Units	Dimension	(unit mm ³)
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