

/ Descriptions

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

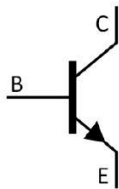
/ Features

Low $V_{CE(sat)}$, high current, HF product.

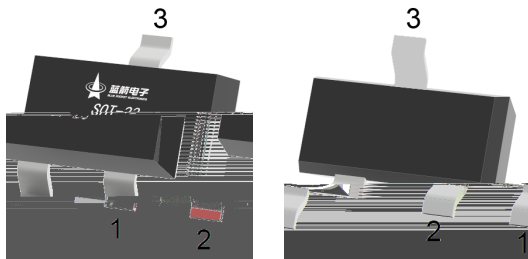
/ Applications

General purpose switching and muting, LCD back-lighting, supply line switching circuits.

/ Equivalent Circuit



/ Pinning



PIN 1 Base PIN 2 Emitter PIN 3 Collector

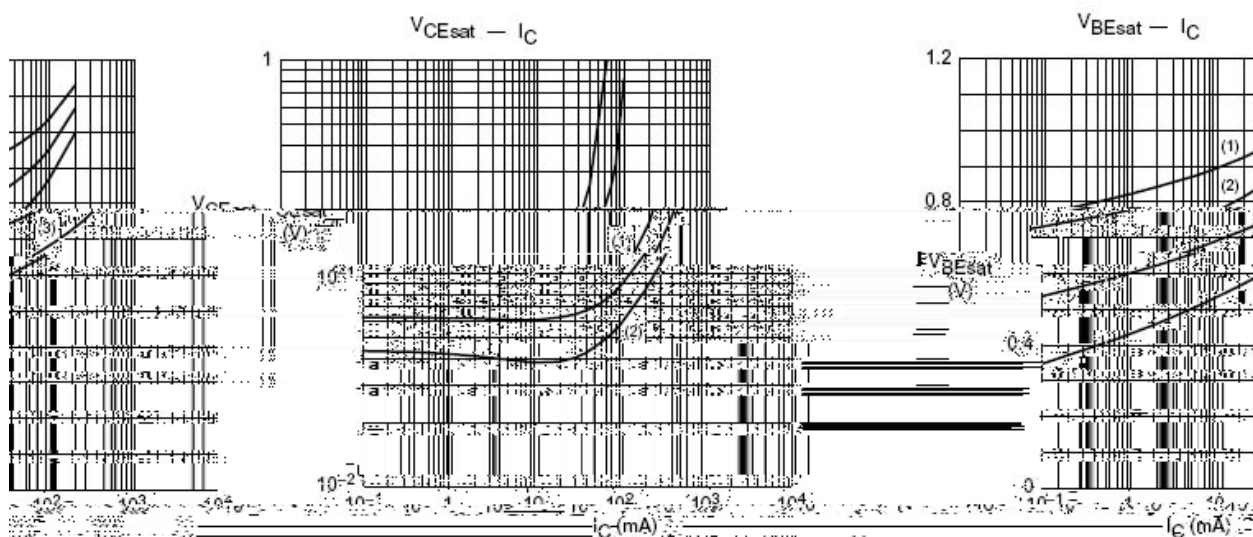
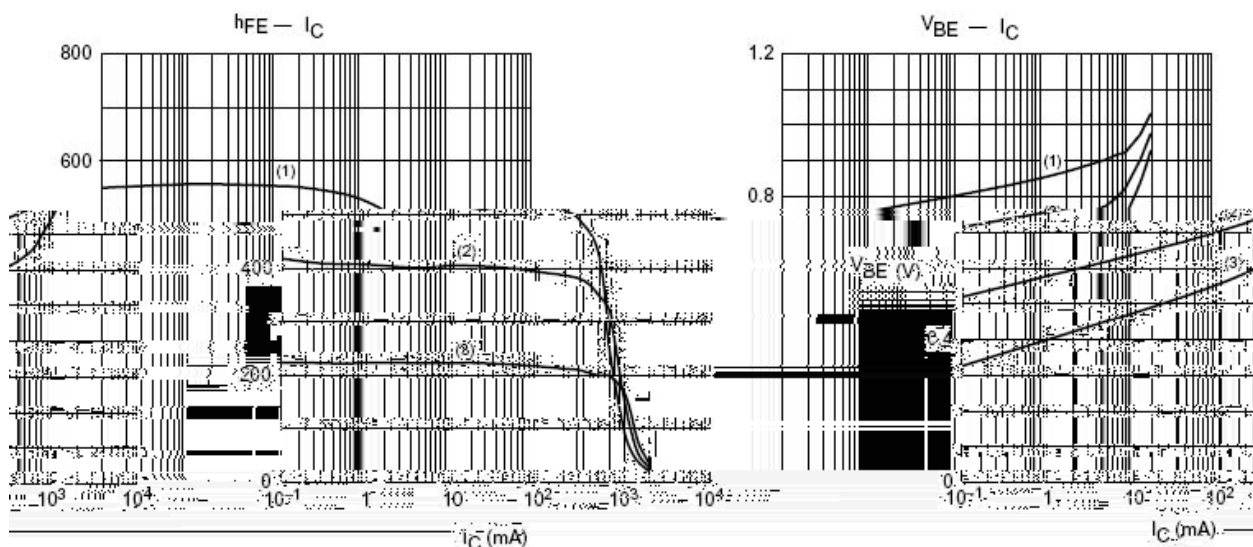
/ h_{FE} Classifications & Marking

h_{FE} Range	>200
Marking	HU5

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1	A
Peak Collector Current	I_{CM}	2	A
Base Current	I_B	0.3	A
Peak Base Current	I_{BM}	1	A
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

Parameter	Symbol	Test Conditions	Min	Typ	Max
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/ Electrical Characteristic Curve



$I_C/I_B = 20$

(1) $T_{amb} = -55^{\circ}C$
(2) $T_{amb} = 25^{\circ}C$
(3) $T_{amb} = 100^{\circ}C$

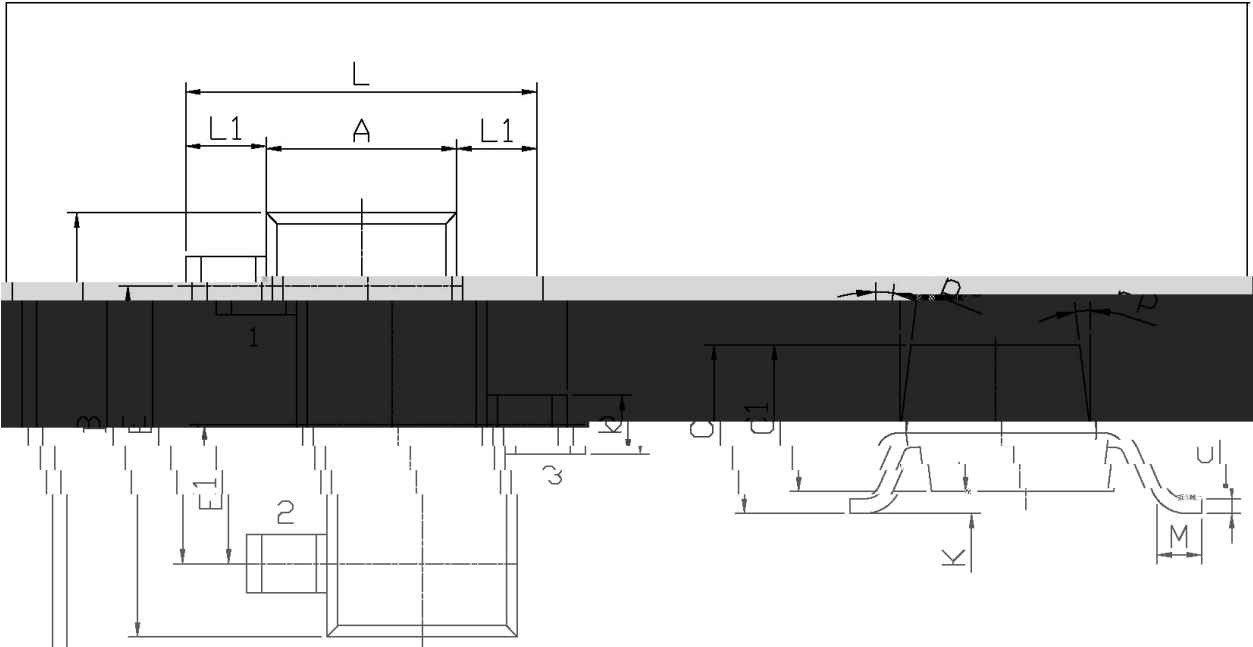
$T_{amb} = 25^{\circ}C$

(1) $I_C/I_B = 100$
(2) $I_C/I_B = 50$

/ Package Dimensions

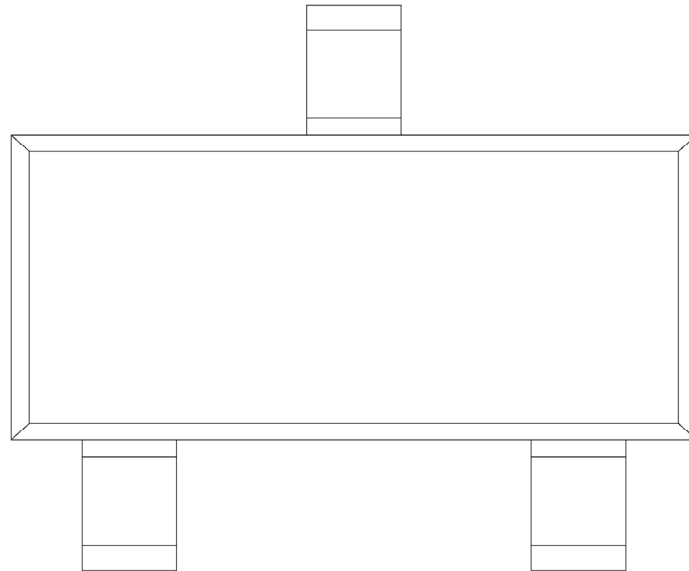
SOT-23

单位：mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	R	0.05	0.20
B	2.70	2.10	K	0	0.10

/ Marking Instructions



H

U5

Note:

H Company Code

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

1

150 180

60 90sec;

Note:
1.Preheating:150~180 , Time:60~90sec. 6