

**/ Descriptions**

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

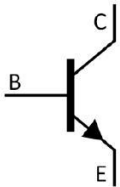
**/ Features**

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

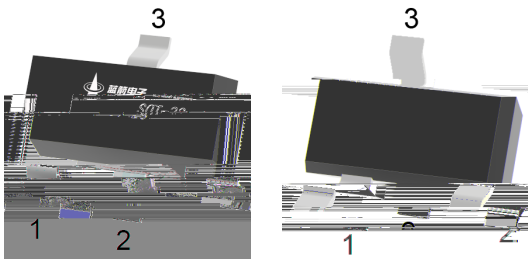
**/ Applications**

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

**/ Equivalent Circuit**



**/ Pinning**



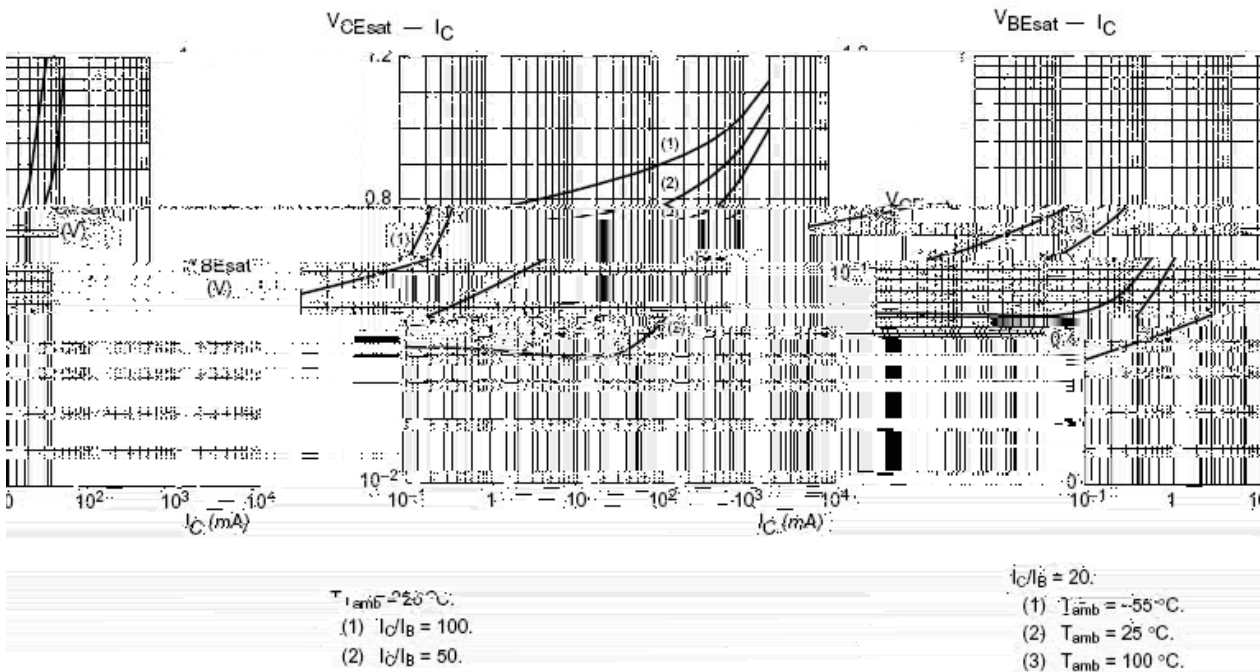
PIN 1 Base          PIN 2 Emitter          PIN 3 Collector

**/ h<sub>FE</sub> Classifications & Marking**

h <sub>FE</sub> 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		

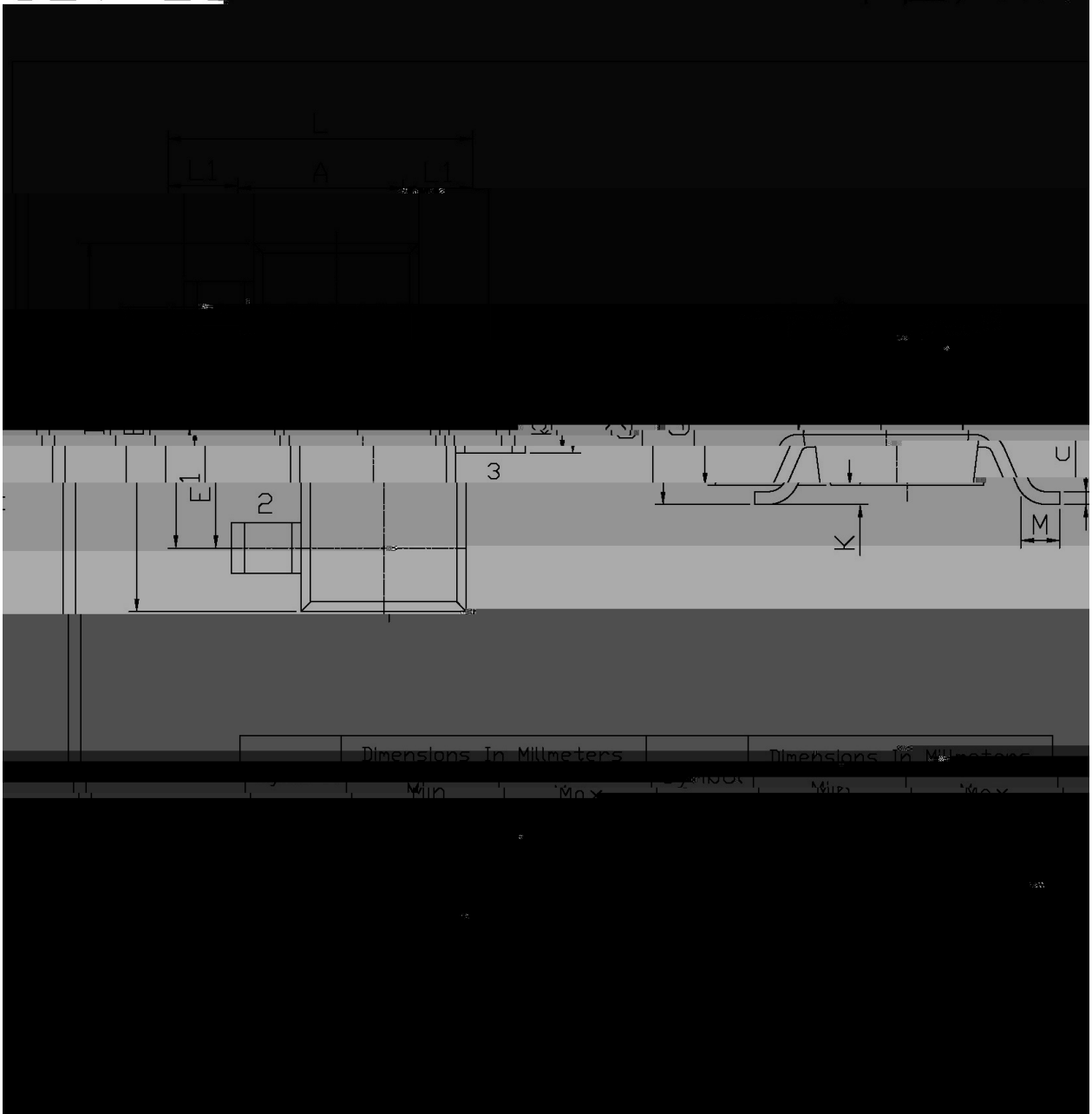
/ Electrical Characteristic Curve



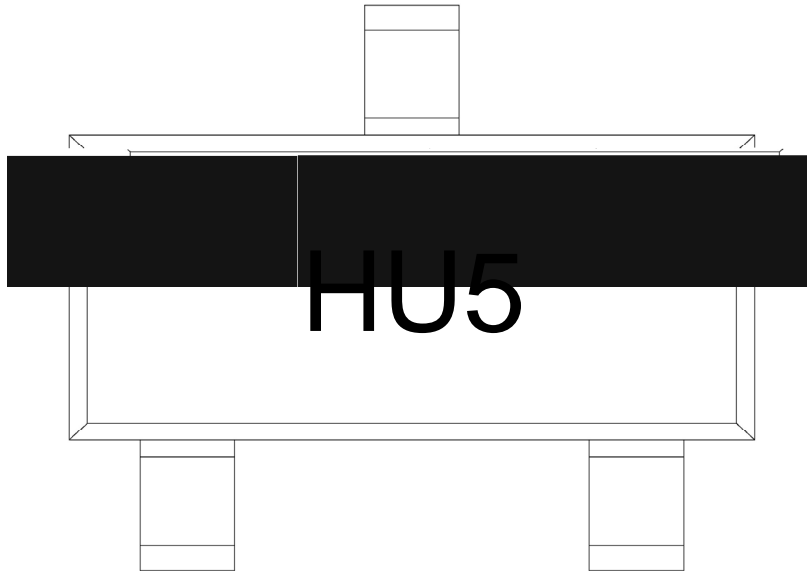
/ Package Dimensions

SOT-23

单位: mm



**/ Marking Instructions**



H

U5

Note:

H      Company Code

U5      Product Type Code

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- |   |       |     |    |           |  |
|---|-------|-----|----|-----------|--|
|   |       |     |    |           |  |
| 1 | 150   | 180 | 60 | 90sec;    | Note:<br>1.Preheating:150~180 , 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 <sup>3</sup> )
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