/ Descriptions

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

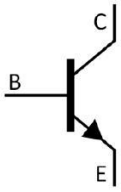
/ Features

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

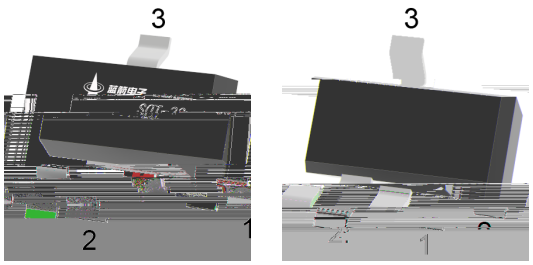
/ Applications

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

/ Equivalent Circuit



/ Pinning



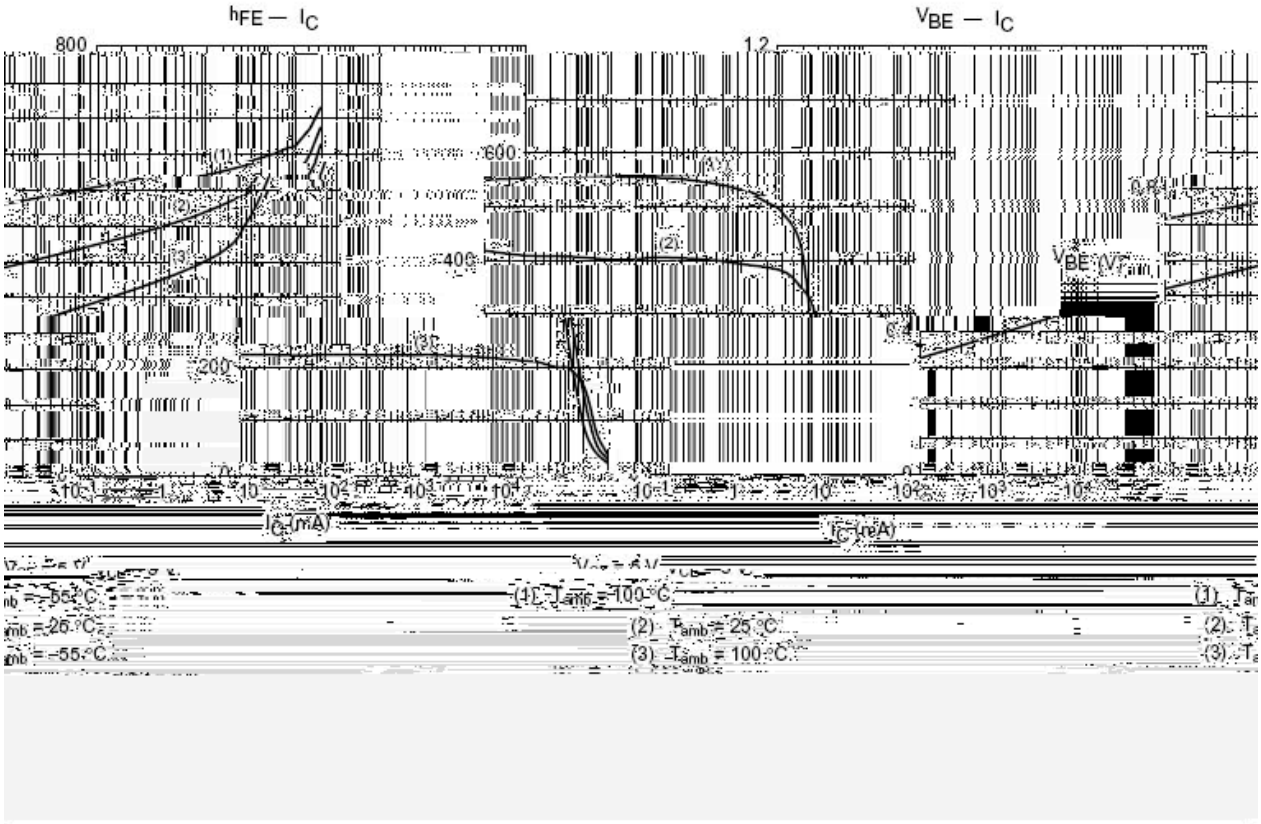
PIN 1 Base PIN 2 Emitter PIN 3 Collector

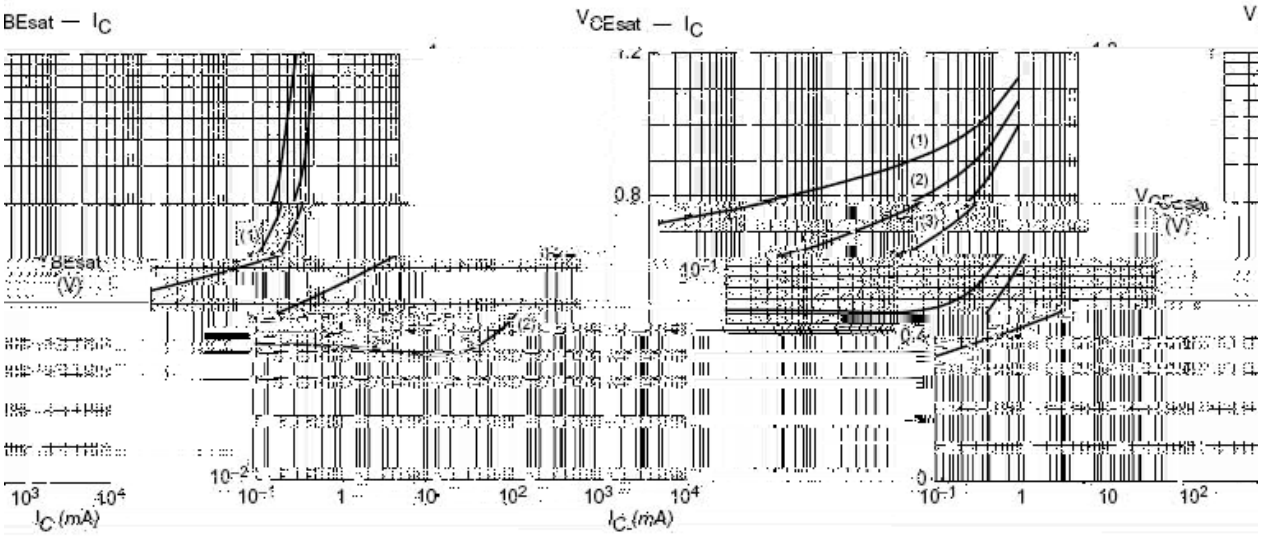
/ h_{FE} Classifications & Marking

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		

/ Electrical Characteristic Curve

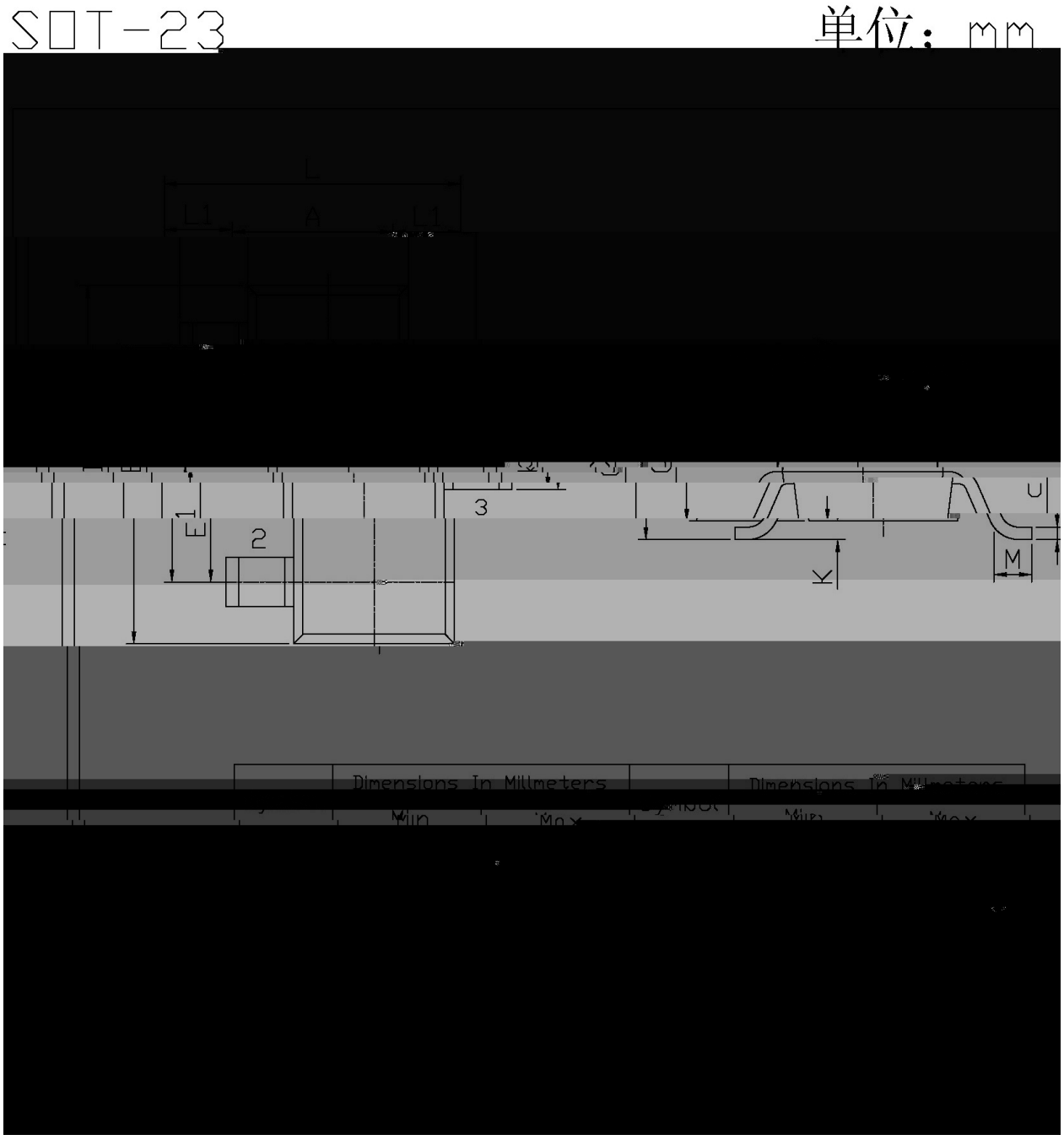




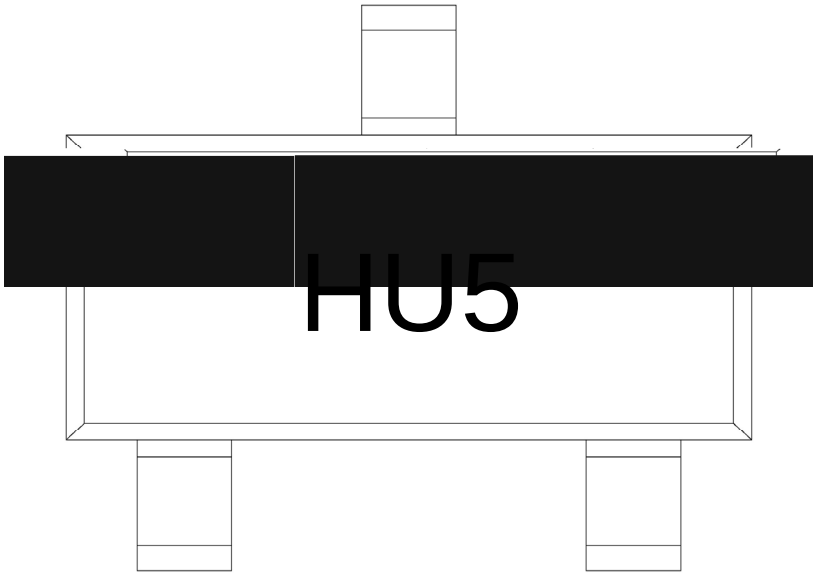
Tamb = 25 °C.
(1) IC/IB = 100.
(2) IC/IB = 50.

IC/IB = 20.
(1) Tamb = −55 °C.
(2) Tamb = 25 °C.
(3) Tamb = 100 °C.

/ Package Dimensions



/ Marking Instructions



H

U5

Note:

H	Company Code
U5	Product Type Code

( ) / Wh p shrdwxrh Prr iioh i r r IU Uhio r w Vr oghriq j +Pe-Frhh,

Note:

1 150 180 60 90sec;
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^3)