

**/ Descriptions**

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

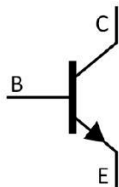
**/ Features**

Low  $f_T$ .

**/ Applications**

Low frequency general-purpose amplifier applications.

**/ Equivalent Circuit**



**/ Pinning**



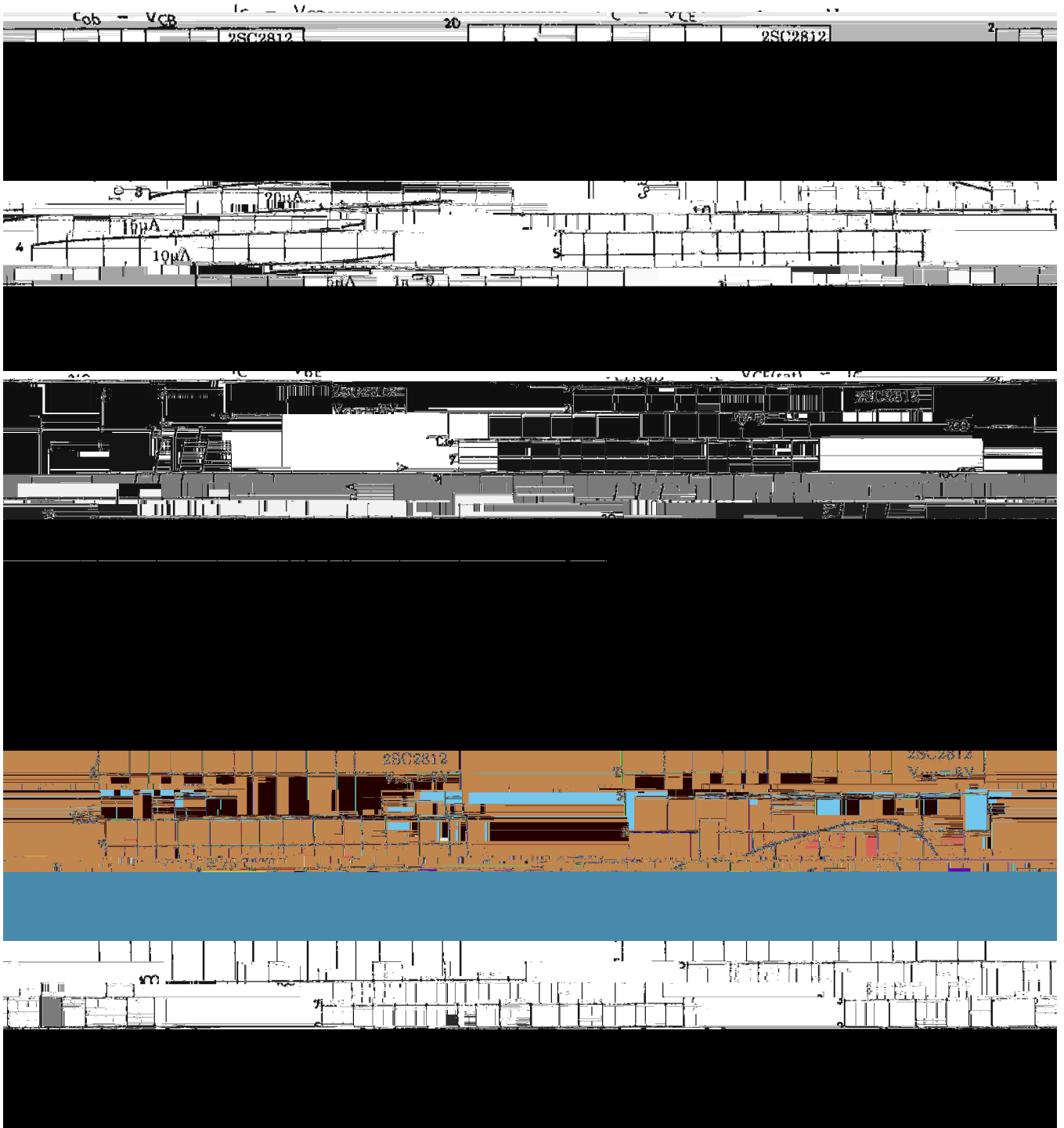
PIN1 Base                  PIN 2 Emitter                  PIN 3 Collector

**/  $h_{FE}$  Classifications & Marking**

$h_{FE}$ Classifications Symbol	4	5	6	7
$h_{FE}$ Range	90 180	135 270	200 400	300 600
Marking	L4H	L5H	L6H	L7H

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	55	V
Collector to Emitter Voltage	$V_{CEO}$	50	V
Emitter to Base Voltage	$V_{EBO}$	5.0	V
Collector Current	$I_C$	150	mA
Collector Current (Pulse)	$I_{CP}$	300	mA
Collector Power Dissipation	$P_C$	200	mW

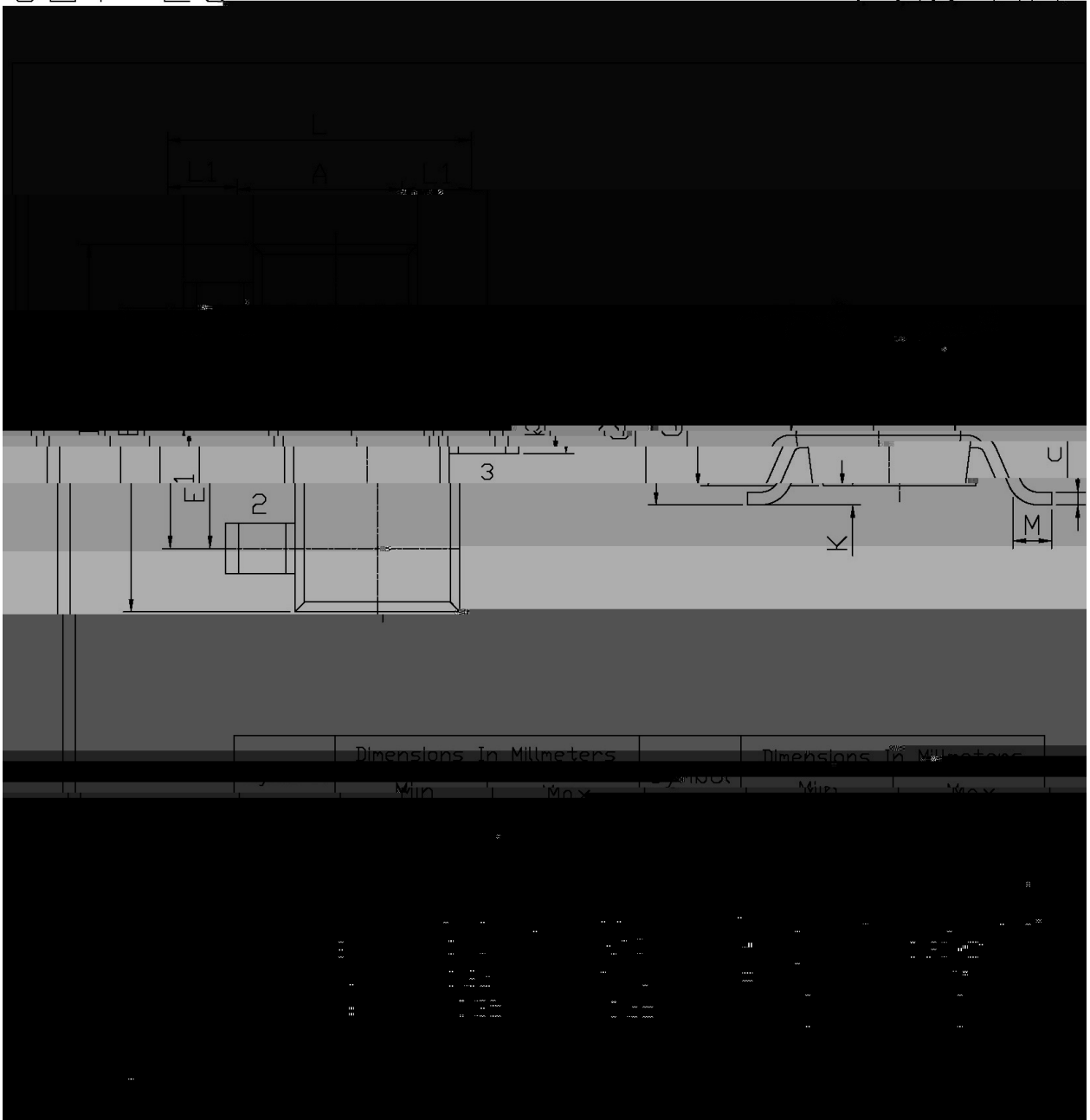
/ Electrical Characteristic Curve



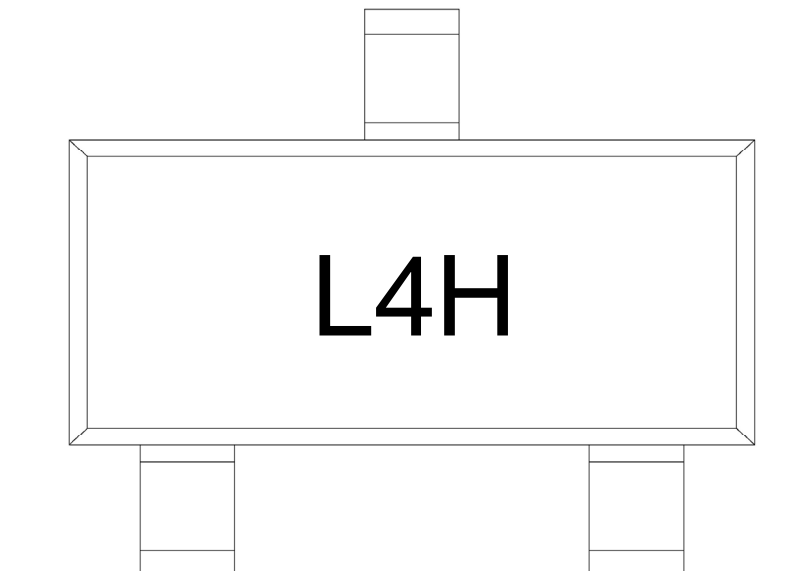
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



L

4             $h_{FE}$

H

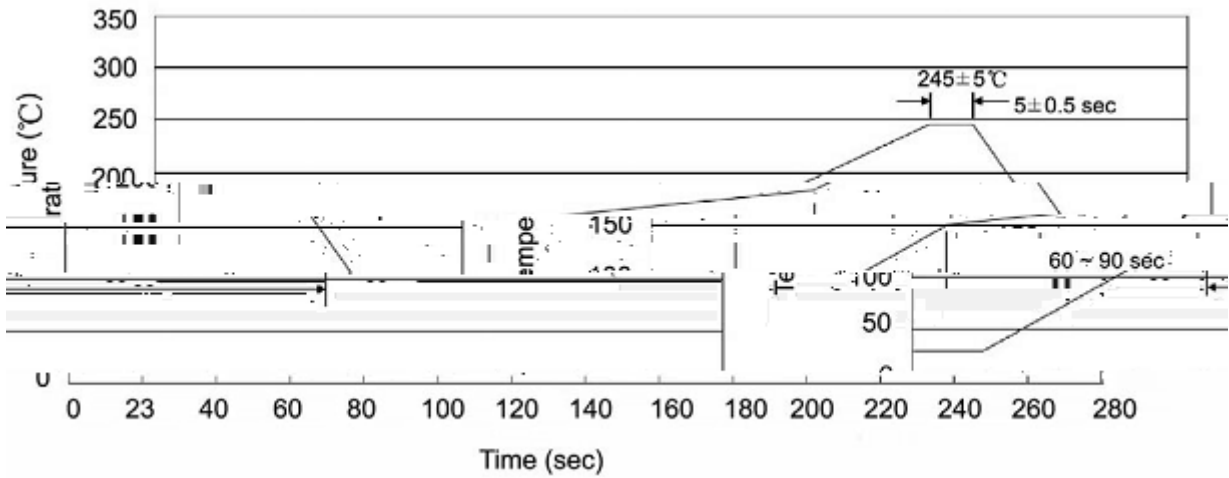
Note:

L            Product Type Code

4             $h_{FE}$  Classifications Symbol Code

H            Company Code

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



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	Units				Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box