/ Descriptions

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

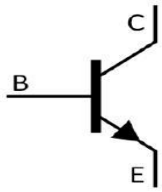
/ Features

Low current, high voltage.

/ Applications

Telephony and professional communication equipment.

/ Equivalent Circuit





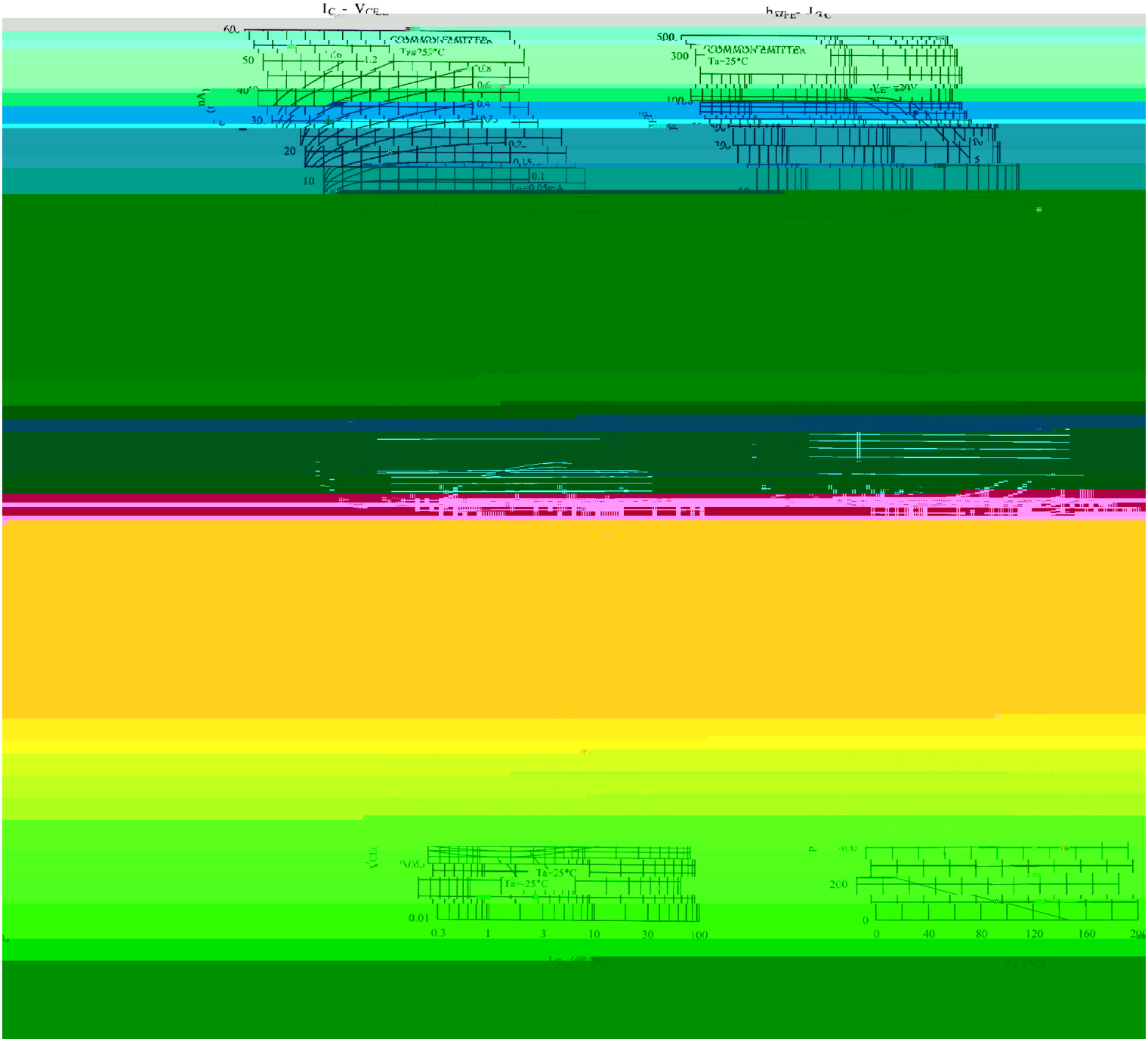
PIN1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

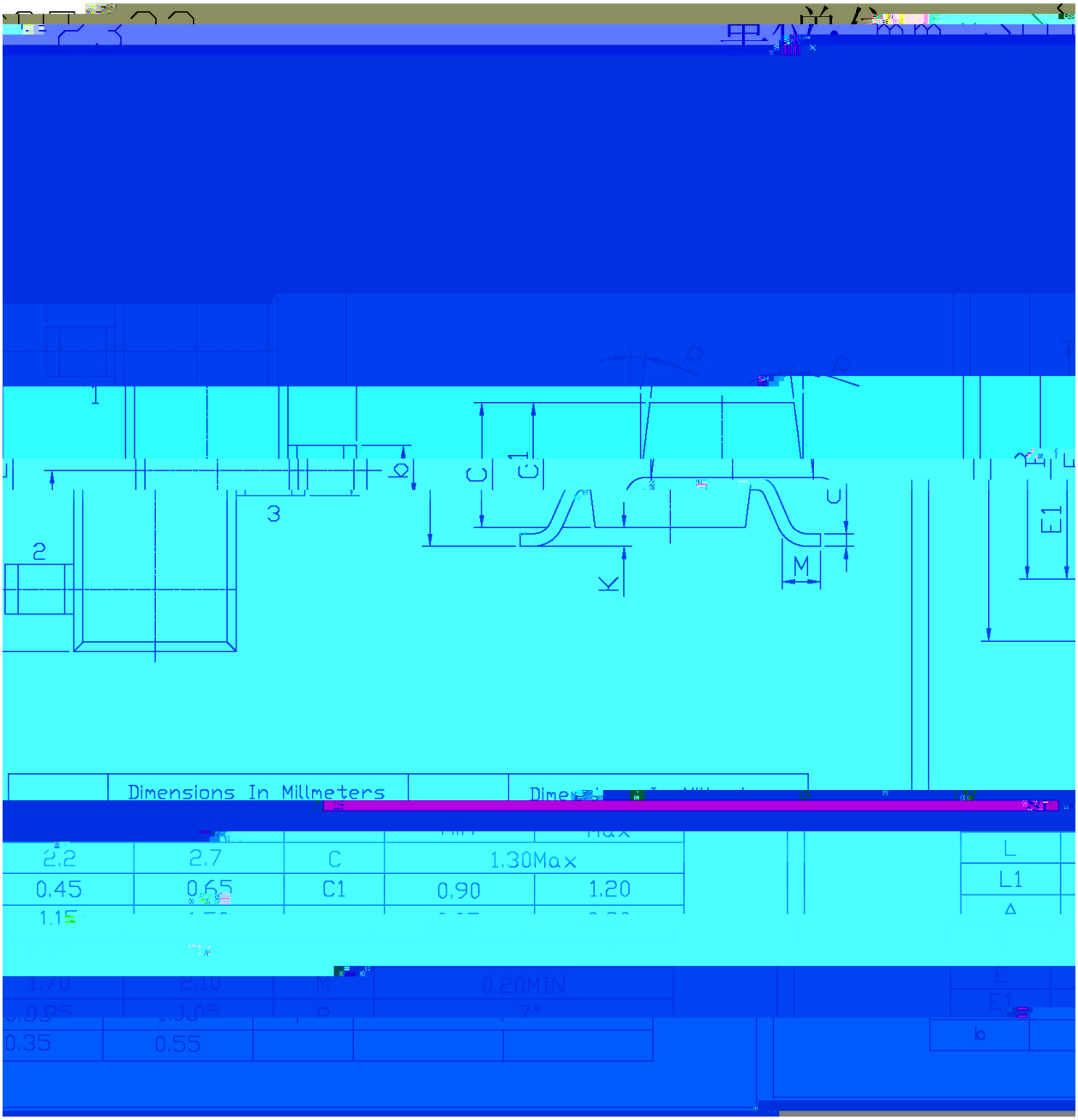
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	250	V
Collector to Emitter Voltage	V_{CEO}	250	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	50	mA
Peak Collector Current- Continuous	I_{CM}	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=200V I_E=0 T_j=150			10	A
Collector Cut-Off Current	I_{CBO}	V_{CB}=200V I_E=0			0.01	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C 7.02 324.3 38.4403b1.14(20.5t 362.4 0330 33 97220 1 (V0.22-2.3771.5( )-218 6(0.0150)				

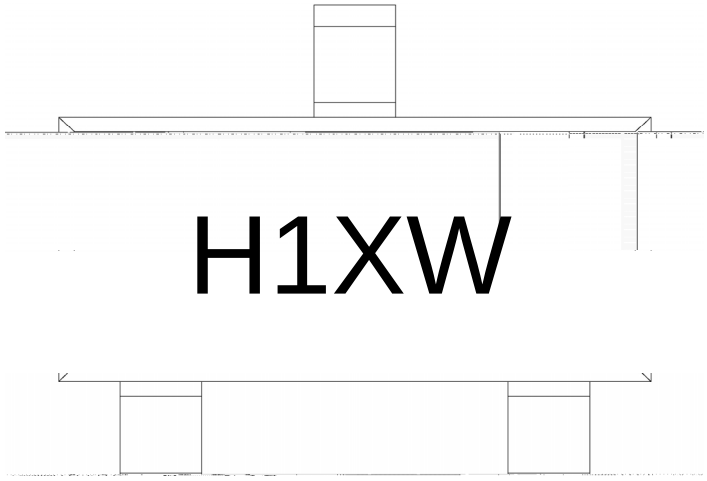
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



H

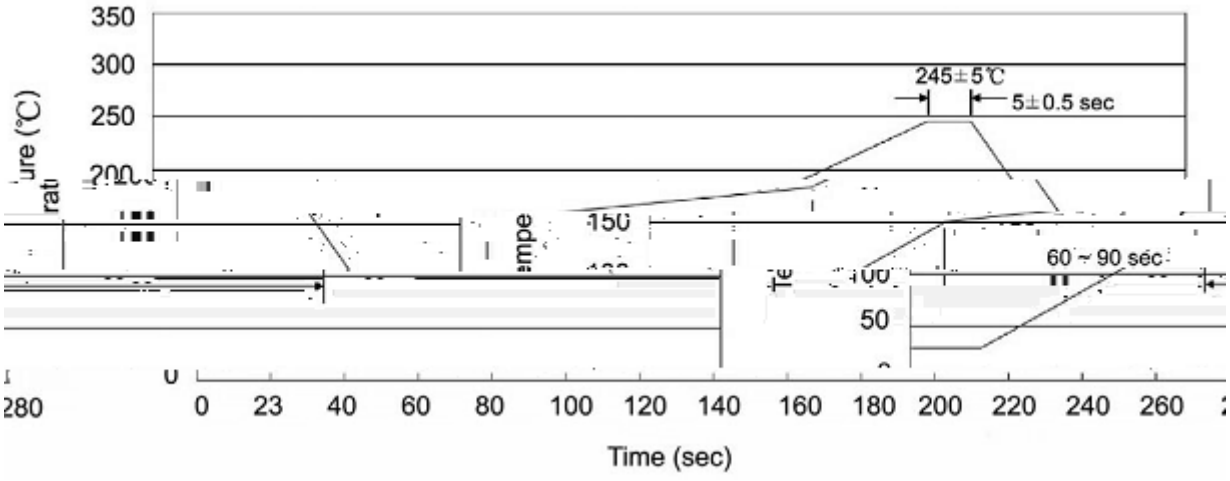
1XW

Note:

H: Company Code.

1XW: Product Type Code.

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



Note:

1	25	150	60	90sec;
2	245±5			5±0.5sec;
3		2	10	/sec.

1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:245±5 , Duration:5±0.5sec.
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)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices