

8550W

Rev.E Mar.-2016

/ Descriptions

SOT-323 PNP Silicon PNP transistor in a SOT-323 Plastic Package.

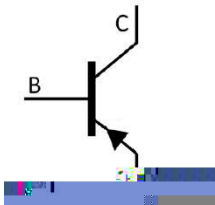
/ Features

8050W
Complementary pair with 8050W.

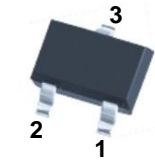
/ Applications

Power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Base PIN 3 Collector

/ Marking

h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	85 160	120 200	160 300
Marking	HY2B	HY2C	HY2D

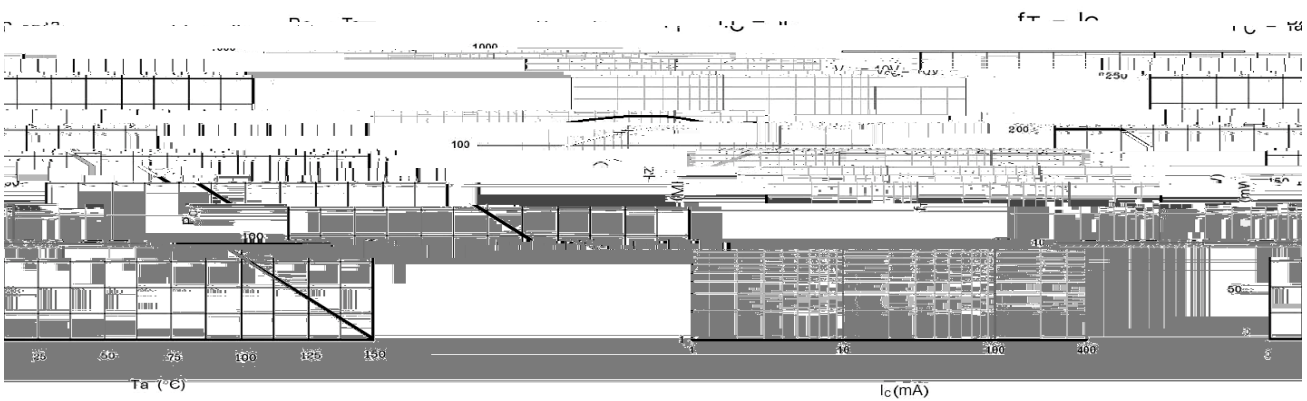
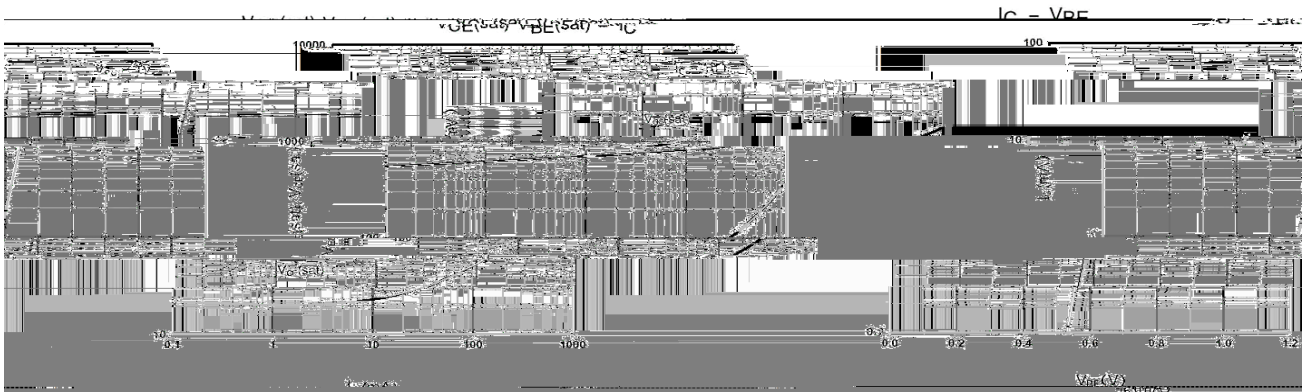
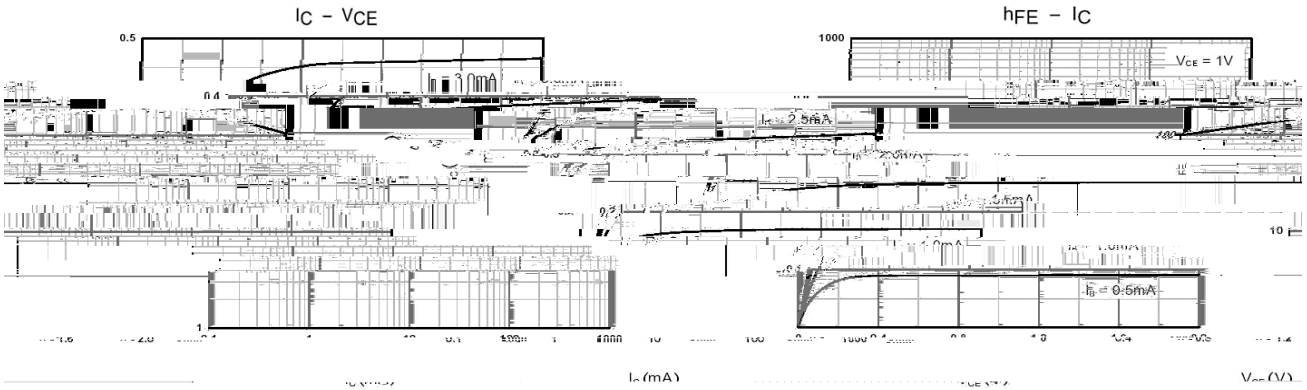
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-1.5	A
Base Current - Continuous	I_B	-0.5	A
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C = -0.1mA$ $I_E = 0$	-40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -2.0mA$ $I_B = 0$	-25			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -0.1mA$ $I_C = 0$	-6.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -35V$ $I_E = 0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB} = -6.0V$ $I_C = 0$			-0.1	μA

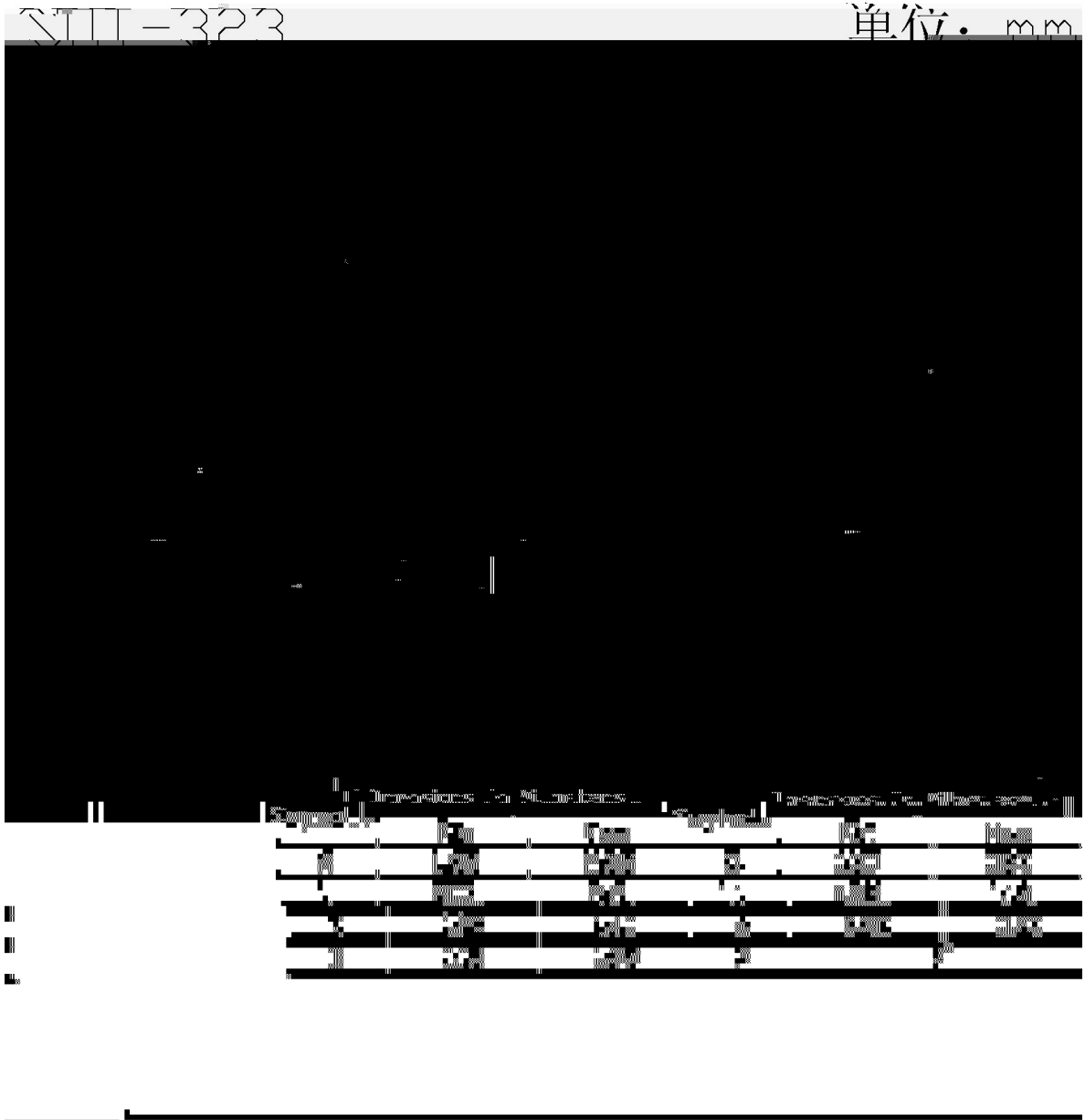
$h_{FE(1)}$ $V_{EBO} 003 T_{stg} T_w(EBO) T_j 10.5 .36e0 \times 10^2 280.98 318.8604 T_{CB}$

DC Current Gain

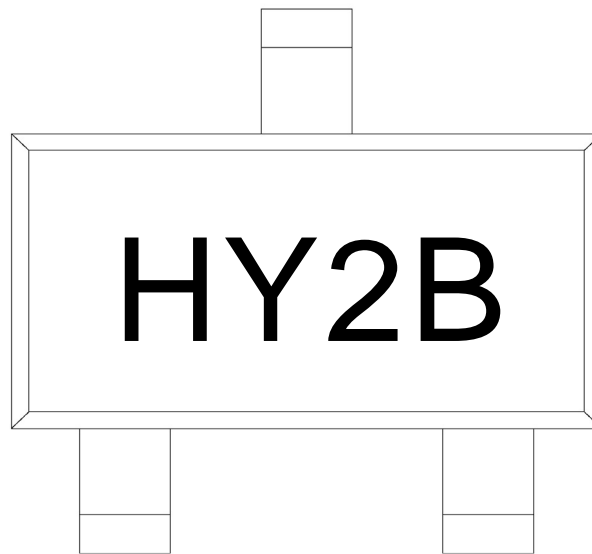
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



H

Y2

B h_{FE}

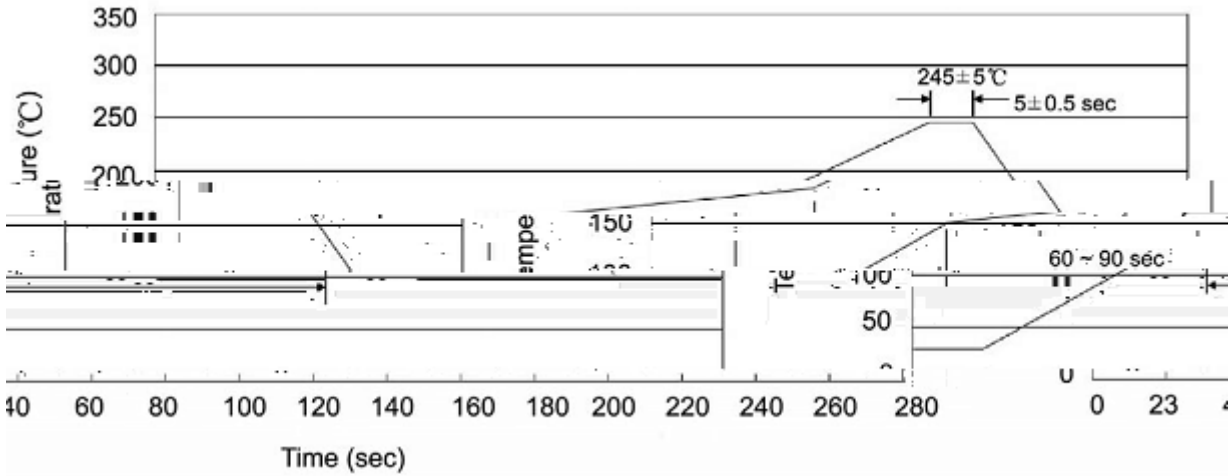
Note:

H: Company Code.

Y2: Product Type.

B h_{FE} Classifications Symbol

() / K\d g\iXk i\`Gif]`d`]fi`@`I`]\fn`Jfd` \i`e`^ZGS`i`\\z



Note:

- | | | | | | |
|---|-------|-----|-------|------------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 °C, Time:60~90sec. |
| 2 | 245±5 | | 5±0.5 | sec; | 2.Peak Temp.:245±5 °C, Duration:5±0.5sec. |
| 3 | | | 2 | 10 °C/sec. | 3. Cooling Speed: 2~10 °C/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-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205