

# 8550W

Rev.E Mar.-2016

## / Descriptions

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

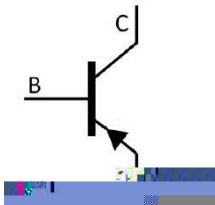
## / Features

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

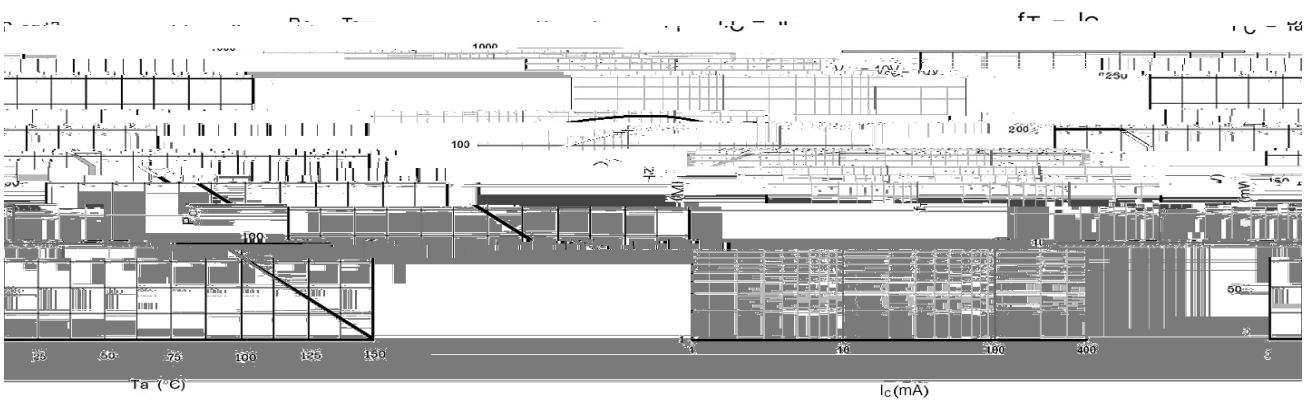
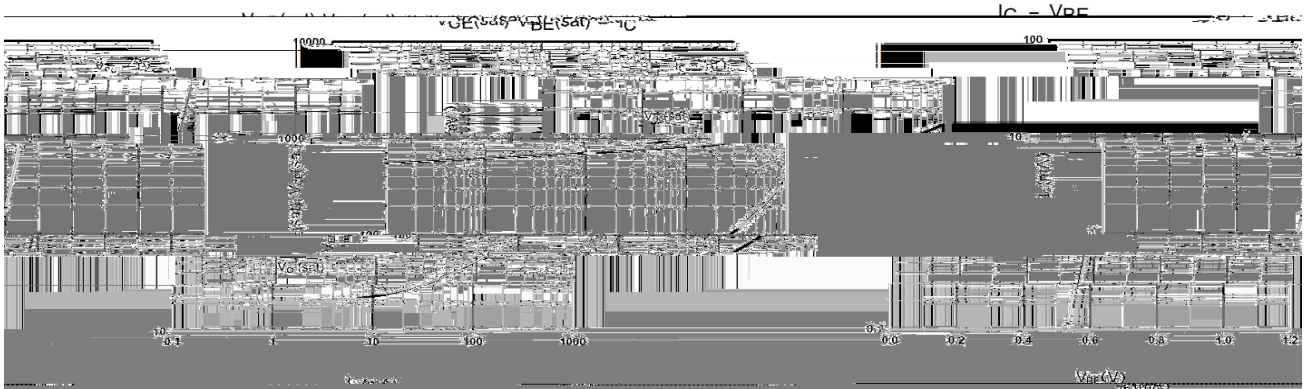
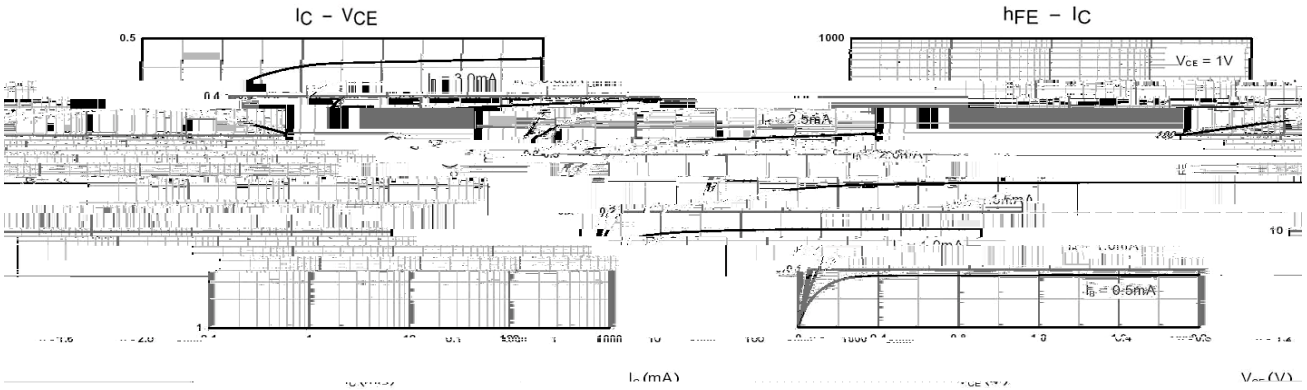
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-40	V
Collector to Emitter Voltage	$V_{CEO}$	-25	V
Emitter to Base Voltage	$V_{EBO}$	-6.0	V
Collector Current - Continuous	$I_C$	-1.5	A
Base Current - Continuous	$I_B$	-0.5	A
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	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	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB} = -6.0V$ $I_C = 0$			-0.1	$\mu A$

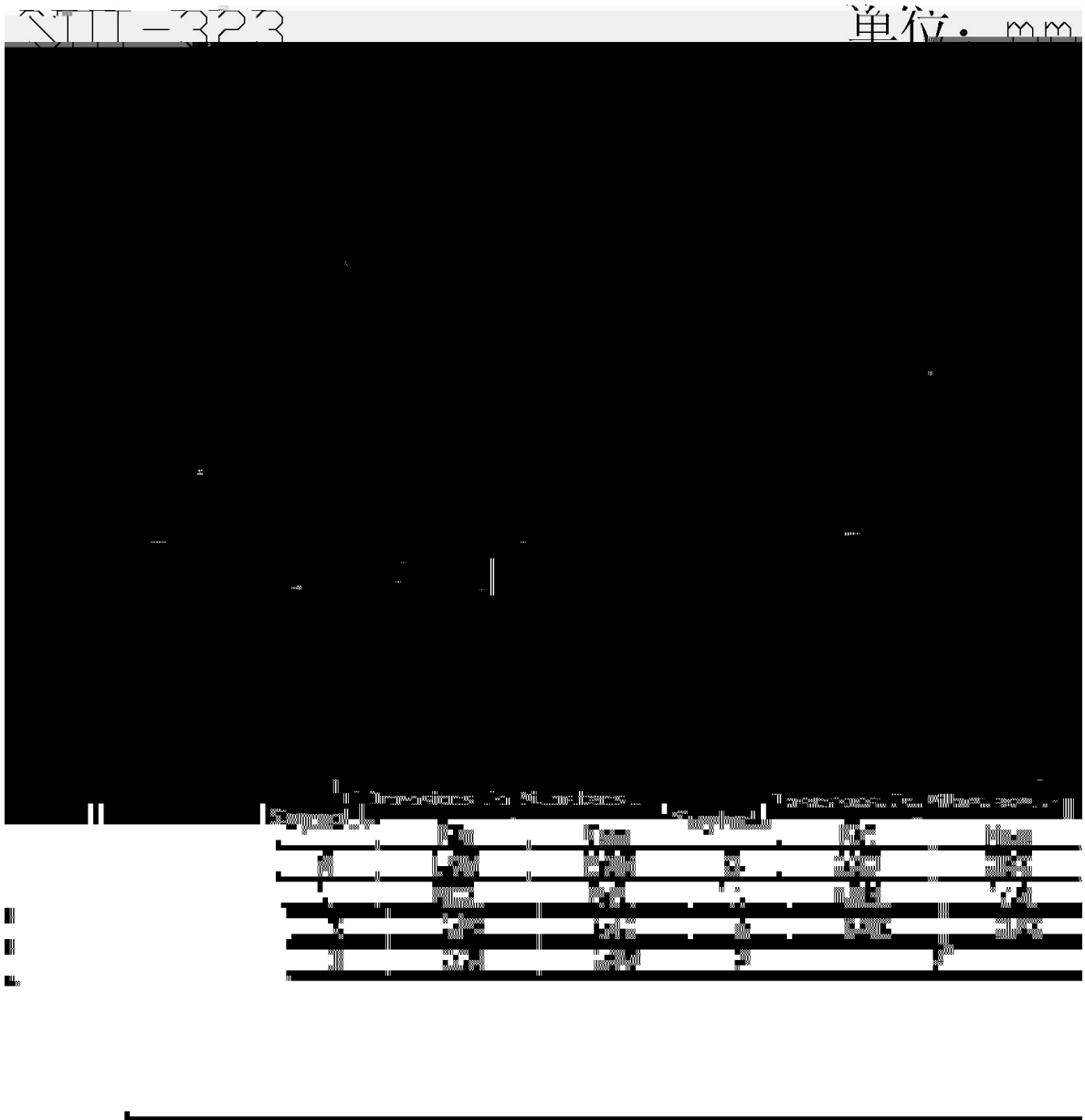
$h_{FE(1)}$   $V_{EBO} 003 T_{stg} T_w(EBO) T_j 10.5 .36e0 \times 10^2 280.98 318.8604 T_{CB}$

DC Current Gain

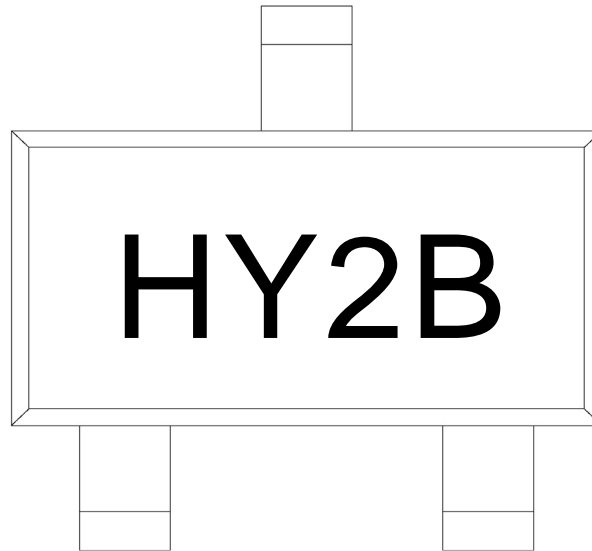
**/ Electrical Characteristic Curve**



/ Package Dimensions



/ Marking Instructions



H

Y2

B             $h_{FE}$

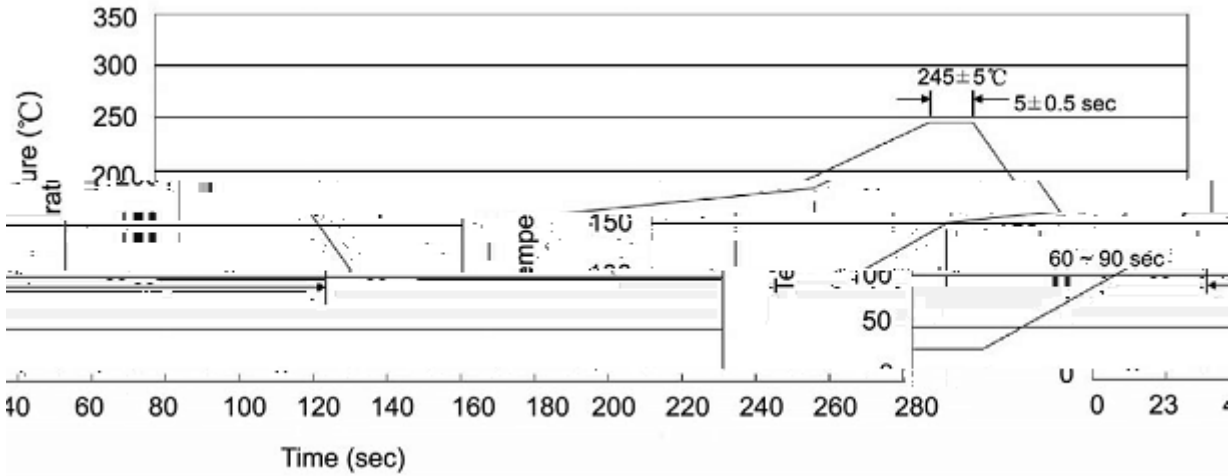
Note:

H:            Company Code.

Y2:          Product Type.

B             $h_{FE}$  Classifications Symbol

( ) / K\d g\iXk i\`Gif]`d`]fi`@`l`]\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 <sup>3</sup> )		
	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