



/ Revised record

A	2020.02.18		SOT-363		
A	2021-7-7	ALL	BR3RC5311WS MUN5311WS	BR	
B	2021-11-25	6			

/ Descriptions

silicon NPN and PNP transistor in a SOT-363 Plastic Package

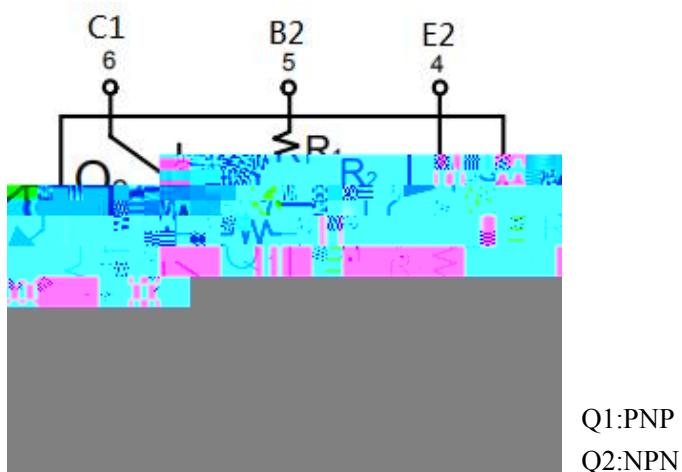
/ Features

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process. Halogen free product.

/ Applications

Switching applications, interface circuit and driver circuit applications.

/ Equivalent Circuit



/ h_{FE} Classifications & Marking

Marking	H311
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Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-10	V
Output Current	I_{CM}	100	mA
	I_O	50	mA
Collector Dissipation	P_C	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

j Parameter Symbol Test Conditions

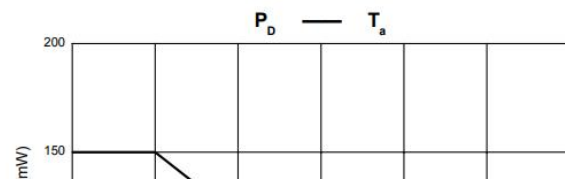
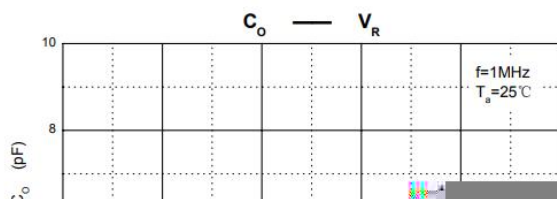
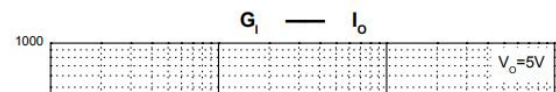
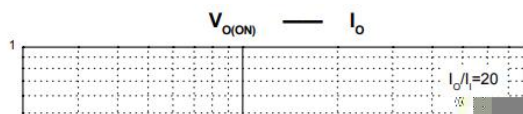


Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-40	V
		10	V
Output Current	I_C	-100	mA
	I_O	-50	mA
Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

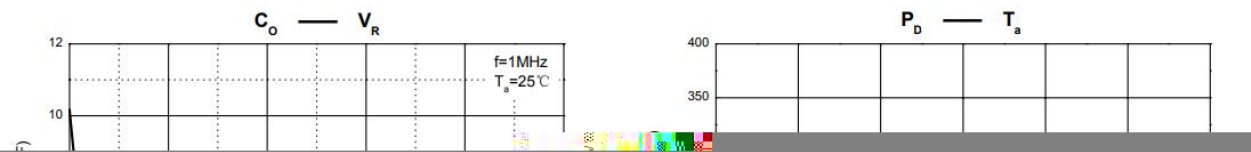
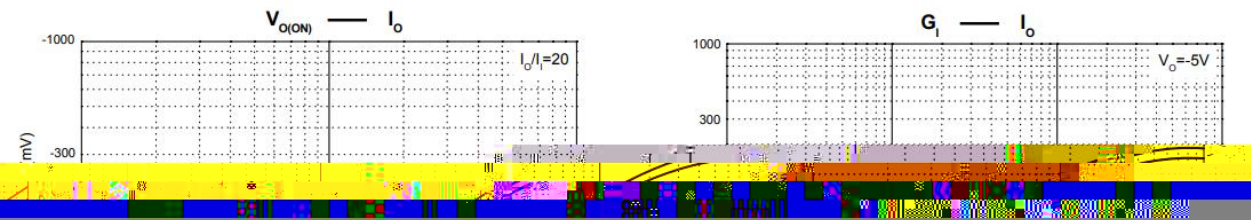
Parameter	Symbol	Test Conditions	Min	Typ
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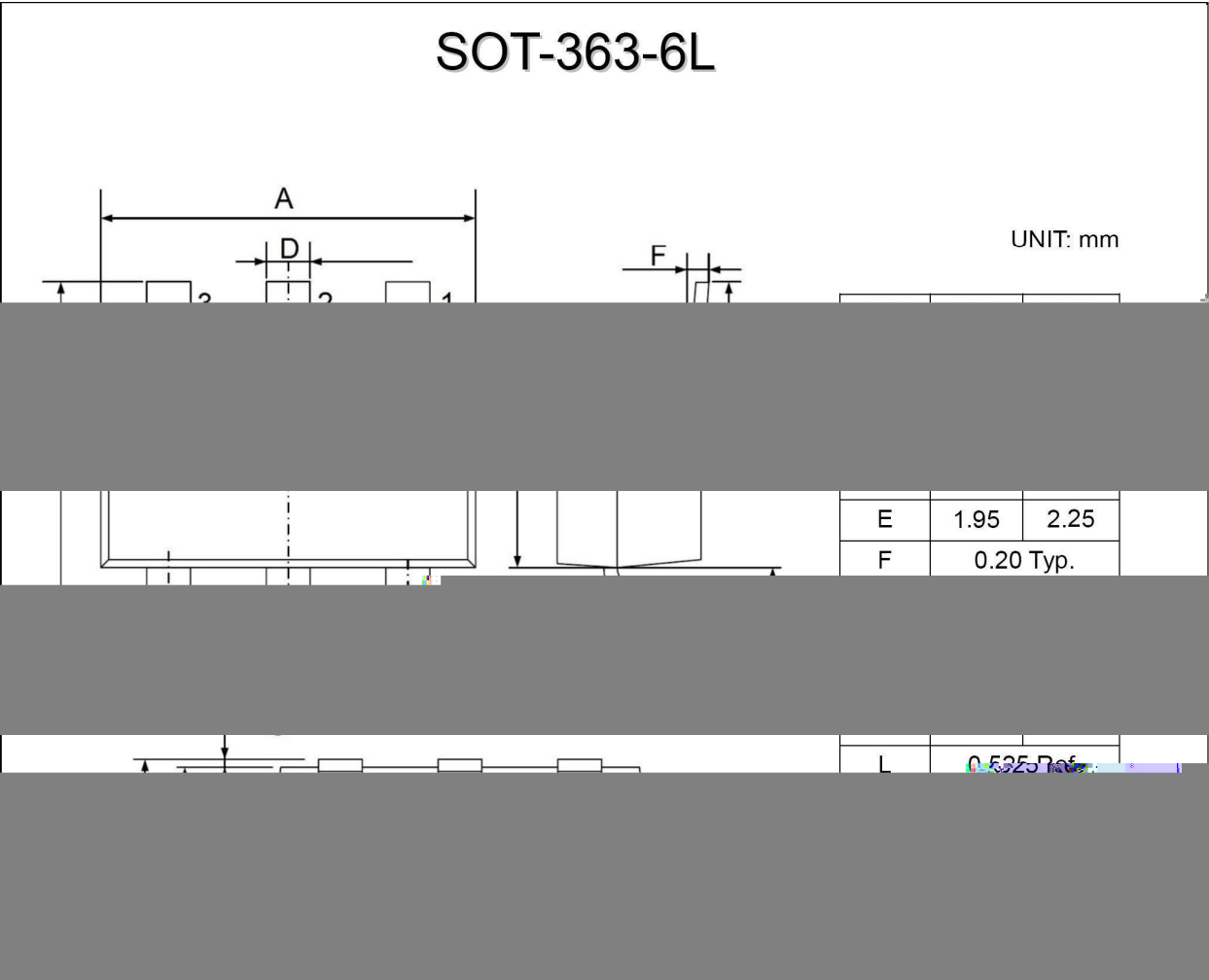
/ Electrical Characteristic Curve(NPN)



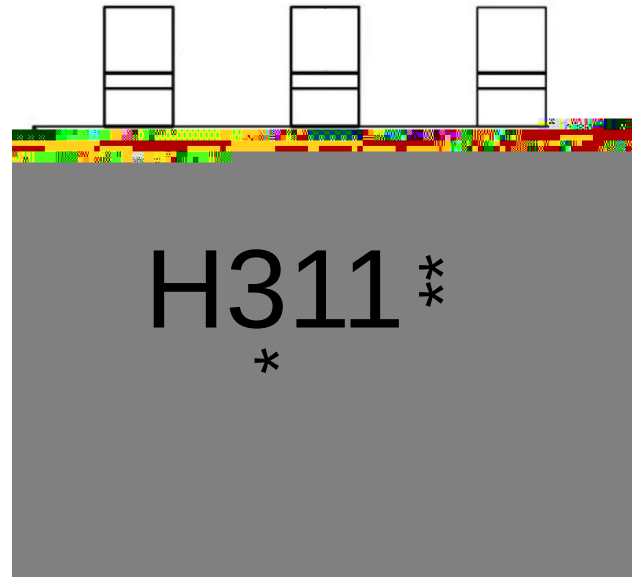
/ Electrical Characteristic Curve(PNP)



/ Package Dimensions



/ Marking Instructions



“ 1 ”

H311

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Note:



“1” Pin

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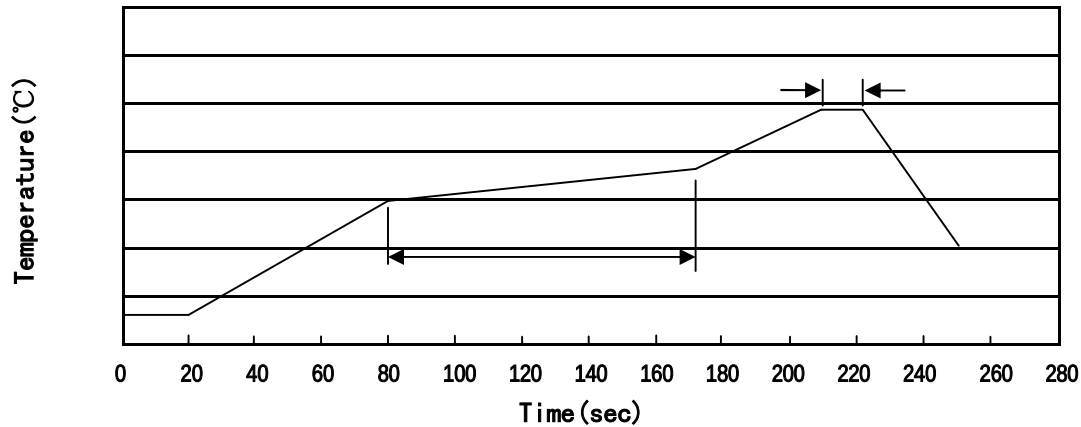
Product Type Code

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Lot No. Code, code change with Lot No.



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



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)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box	Outer Box
SOT-363	3,000	10	30,000	6	180000	7" ×8	180×120×180	390×385×205

/ Notices