

/ Descriptions

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

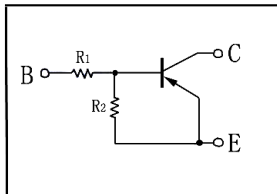
/ Features

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, HF Product.

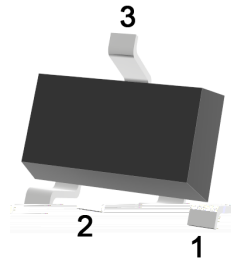
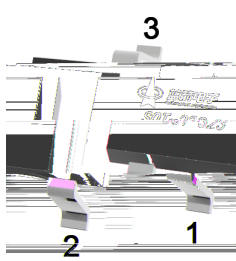
/ Applications

Switching, inverter circuit, interface circuit and driver circuit applications.

/ Equivalent Circuit



/ Pinning



PIN 1 Base PIN 2 Emitter PIN 3 Collector

/ hFE Classifications & Marking

Marking	HE11
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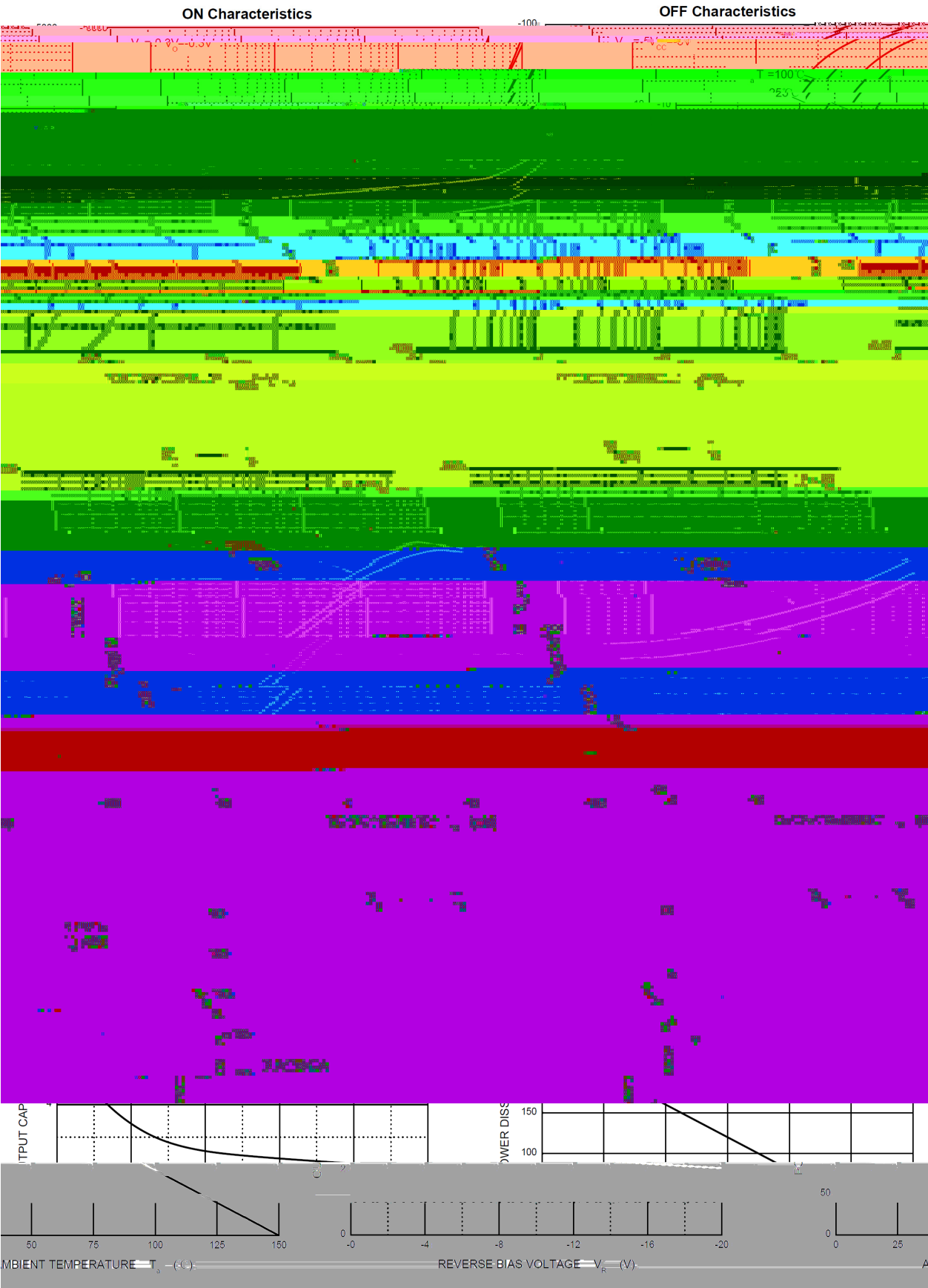
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	-50	V
Input Voltage	V _{IN}	-10	V
		5	V
Output Current	I _O	-100	mA
Power Dissipation	P _D	200	mW
Operation Junction and Storage Temperature Range	T _J , T _{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	V _{I(off)}	V _{CC} =-5.0V I _O =-100μA	-0.3			V
	V _{I(on)}	V _O =-0.3V I _O =-20mA			-3	V
Output Voltage	V _{O(on)}	I _O =-10mA I _I =-0.5mA			-0.3	V
Input Current	I _I	V _I =-5.0V			-7.2	mA
Output current	I _{O(off)}	V _{CC} =-50V V _I =0V			-0.5	μA
DC Current Gain	G _I	V _O =-5.0V I _O =-5mA	33			
Transition Frequency	f _T	V _O =-10V I _O =-5.0mA f=100MHz		250		MHz
Resistance1	R ₁		0.7	1	1.3	KΩ
Resistance Ratio	R ₂ /R ₁		8	10	12	

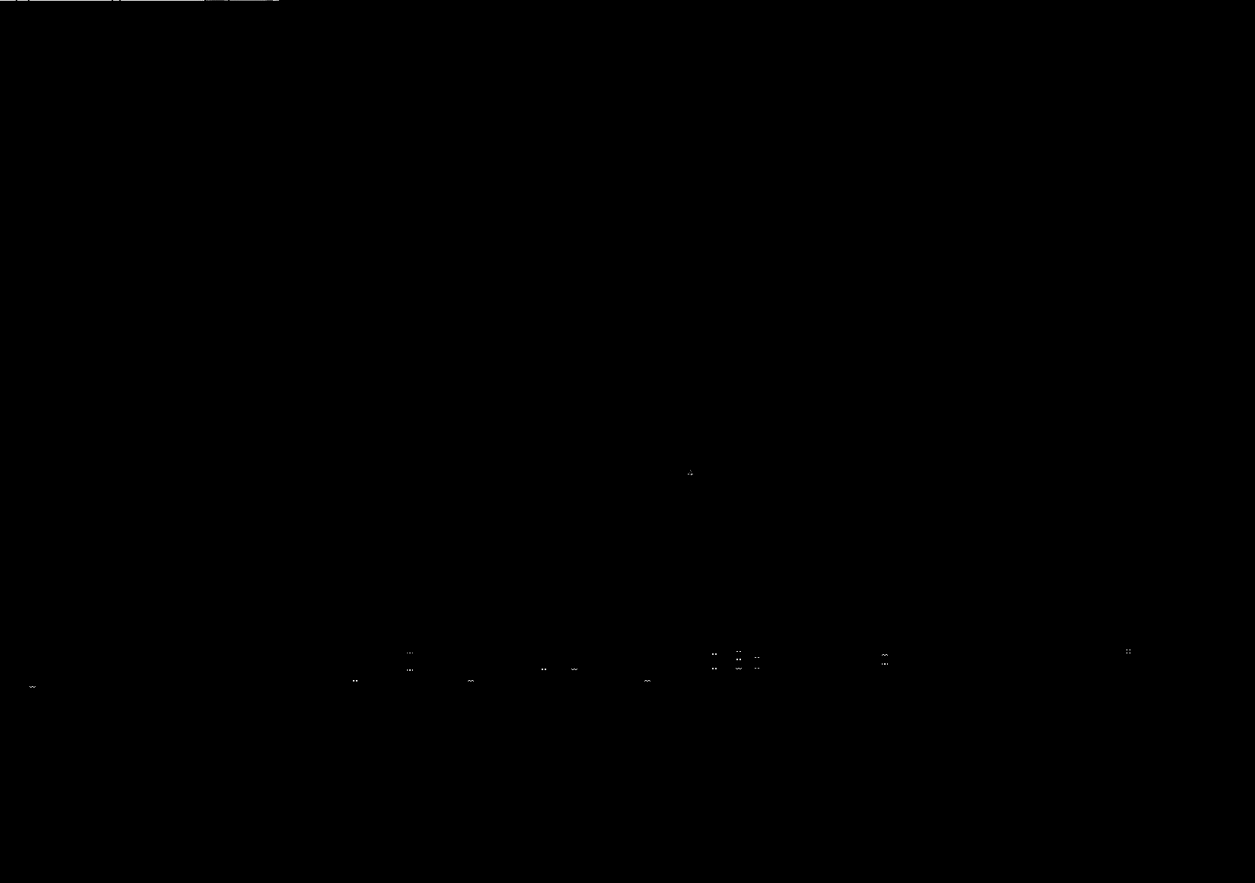
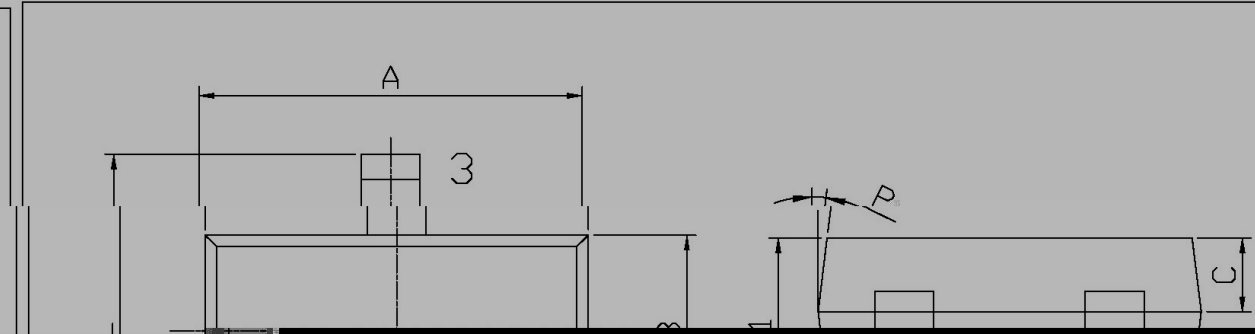
/ Electrical Characteristic Curve



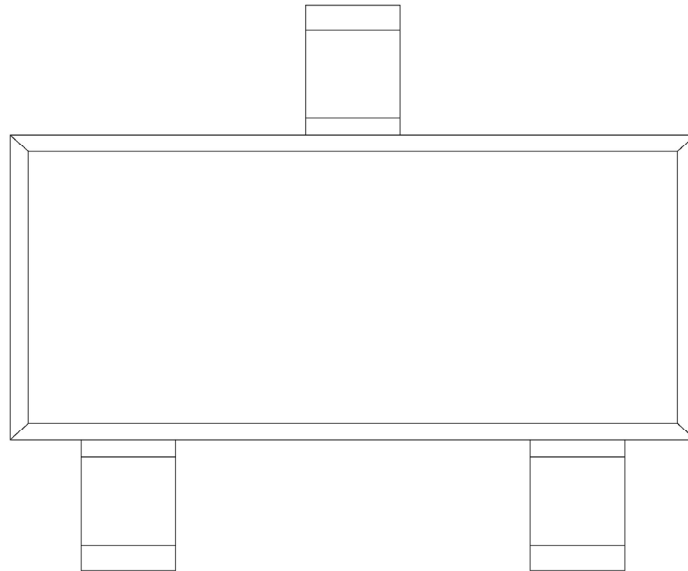
/ Package Dimensions

SMT-323

单位: mm



/ Marking Instructions

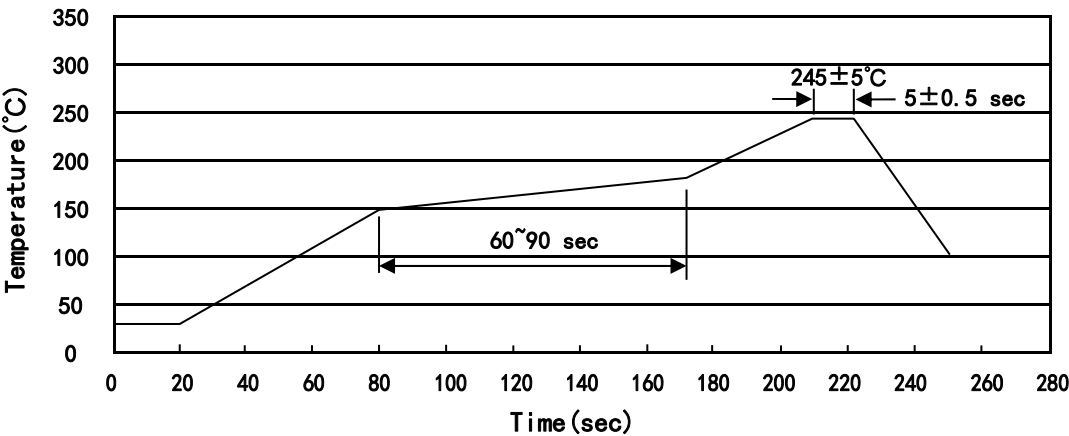


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E11

Note:

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Note:

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|---|-------|-----|----|-----------|---|
| 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 /	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

/ Notices