/ Revised record

A	2022-4-19				

/ Descriptions

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

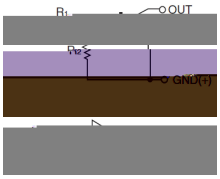
/ Features

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

/ Applications

Switching applications, interface circuit and driver circuit applications.

/ Equivalent Circuit



/ Pinning

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2 **1**

PIN1 GND PIN 2 IN PIN 3 OUT

/ Marking

Marking	H14

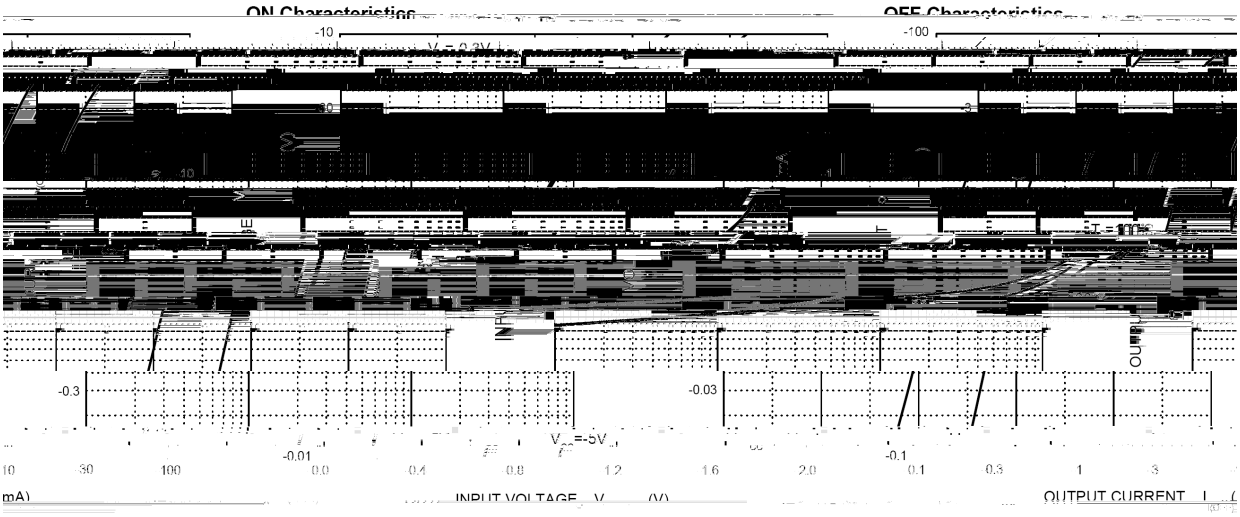
/ Absolute Maximum Ratings(Ta=25)

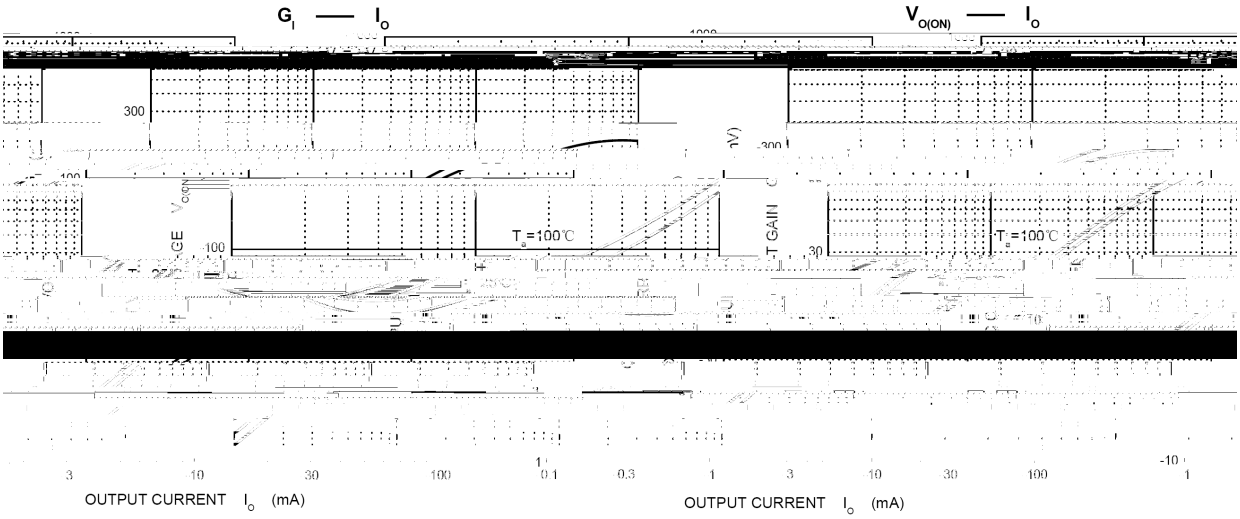
Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	10	V
		-40	V
Output Current	I_O	-50	mA
Peak Collector Current	I_{CM}	-100	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	-55～150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

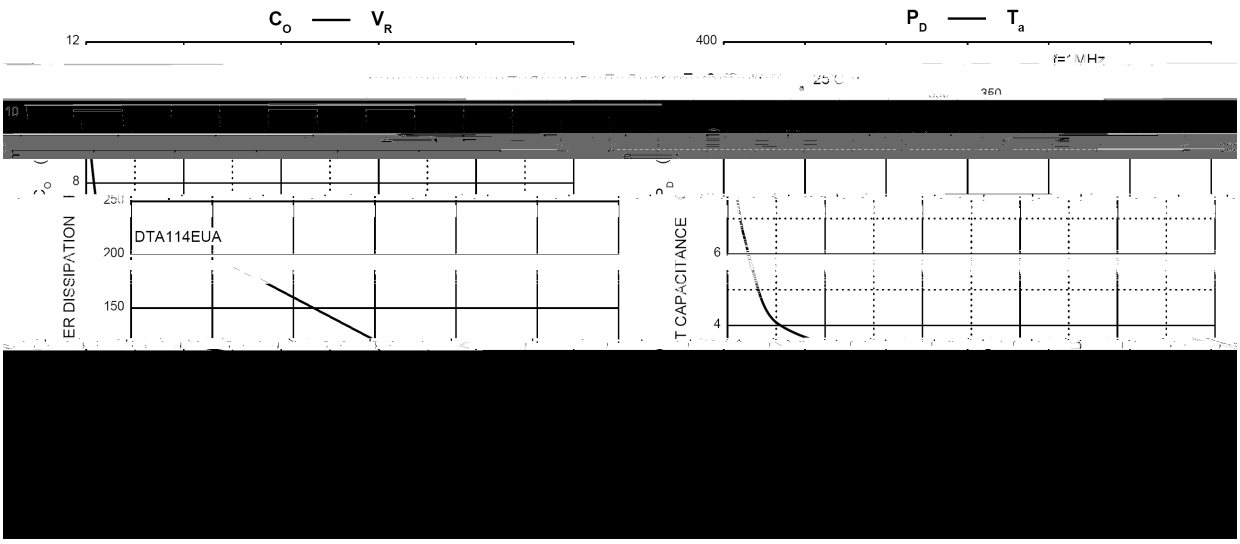
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	$V_{I(off)}$	V_{CC}=-5.0V I_O=-100μA	-0.5			V
	$V_{I(on)}$	V_O=-0.3V I_O=-10mA			-3.0	V
Output Voltage	$V_{O(on)}$	I_O=-10 mA I_I=-0.5mA			-0.3	V
Input Current	I_I	V_I=-5.0V			-0.88	mA
Output Cut-off Current	$I_{O(off)}$	V_{CC}=-50V V_I=0V			-0.5	μA
DC Current Gain	G_I	V_O=-5.0V I_O=-5.0mA	30			
Resistance1	R_1		7	10	13	KΩ
Resistance Ratio	R_2/R_1		0.8	1.0	1.2	
Transition Frequency	f_T	V_O=-10V I_O=-5.0mA f=100MHz		250		MHz

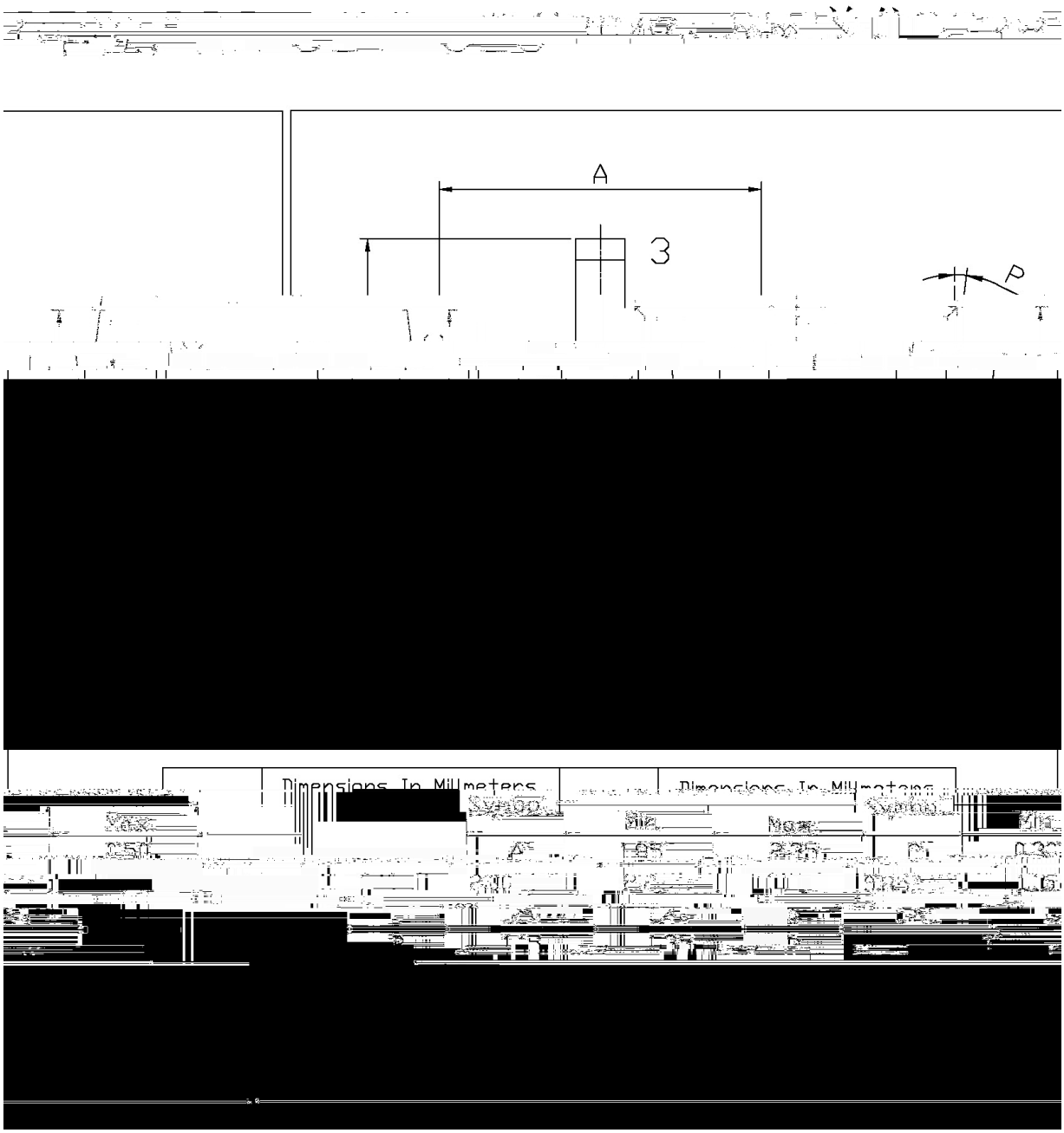
/ Electrical Characteristic Curve



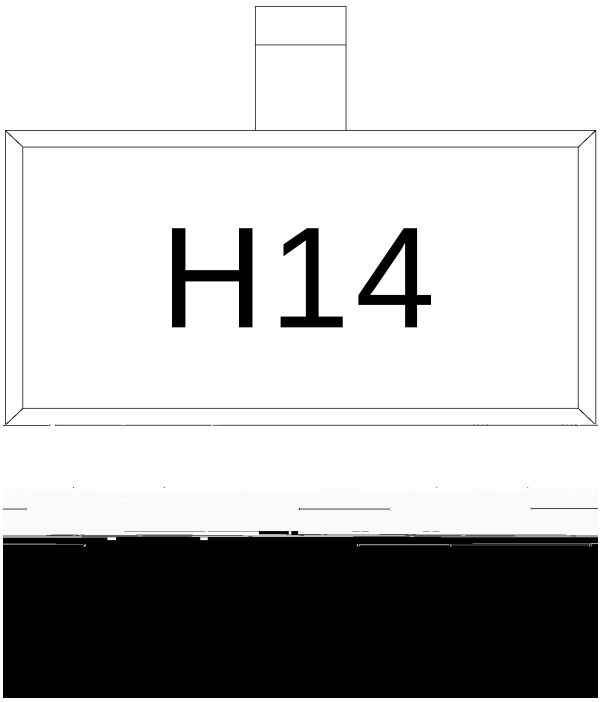




/ Package Dimensions



/ Marking Instructions



H

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Note:

H	Company Code
14	Product Type Code

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

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		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 封装形式	Units 包装数量					Dimension 包装尺寸 (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 盒	Outer Box 箱
SOT-323	3,000	10	30,000			7″ ×8	180×120×180	390×385×205