



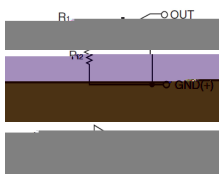


Rev.A Apr.-2022

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

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

Switching applications, interface circuit and driver circuit applications.



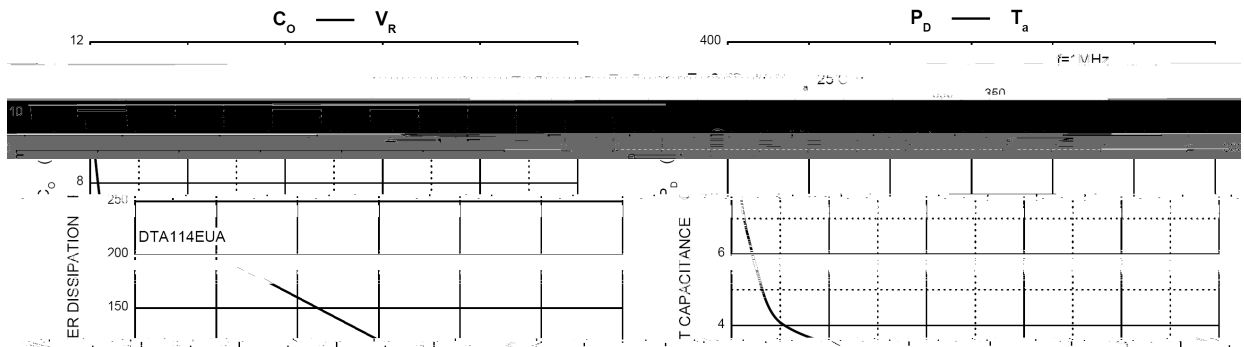
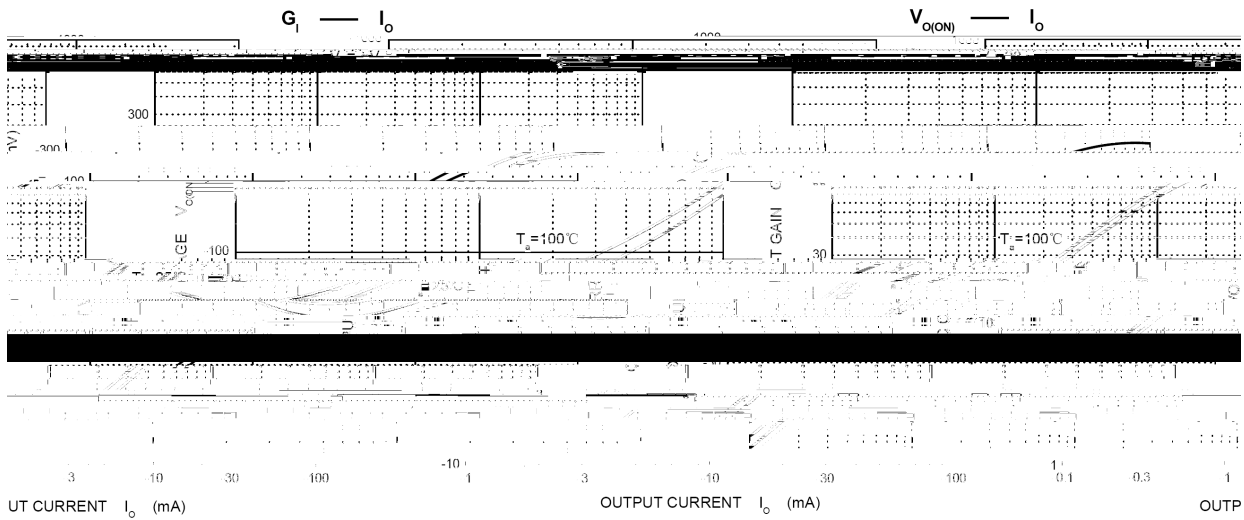
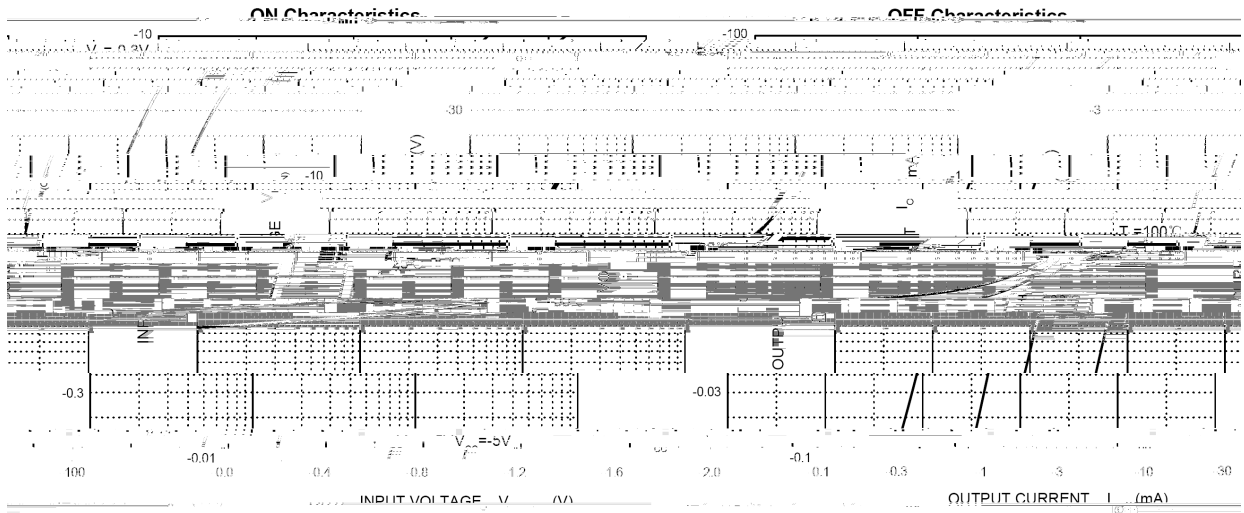
PIN1 GND      PIN 2 IN      PIN 3 OUT

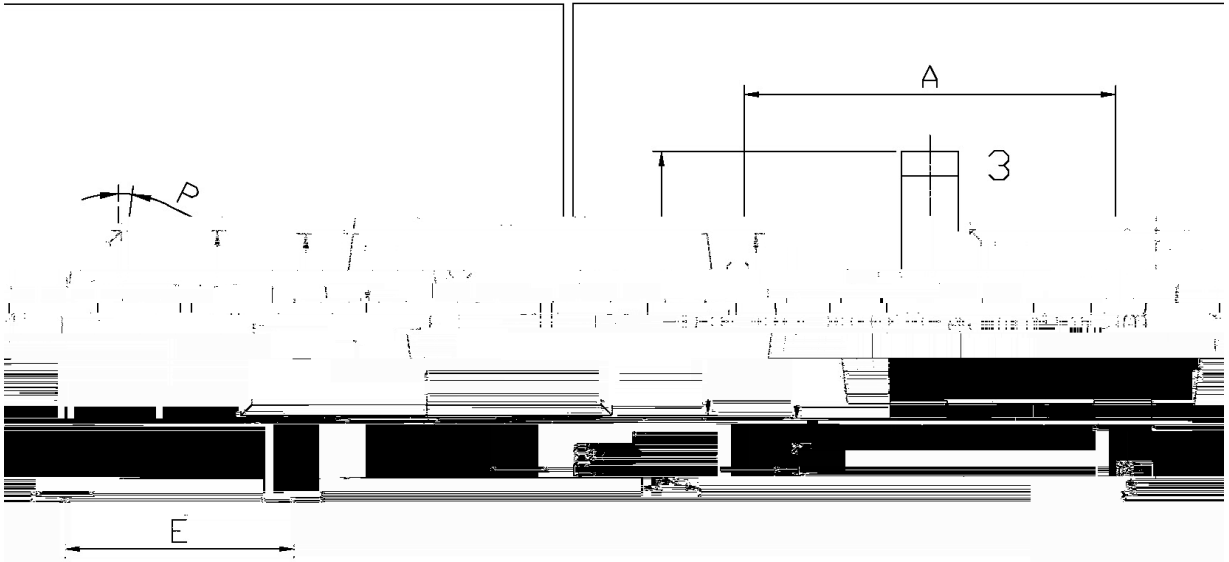
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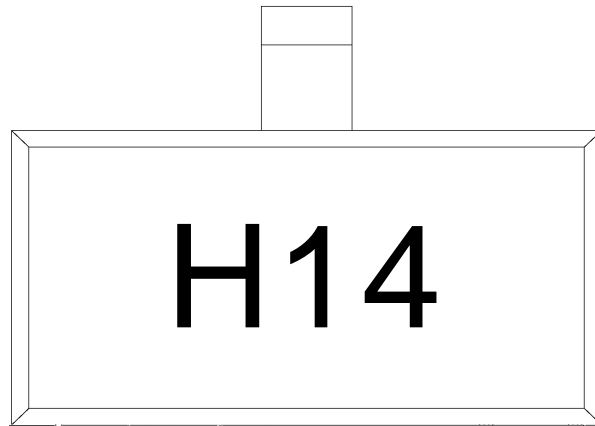
Parameter	Symbol	Rating	Unit
Output Voltage	$V_{CC}$	-50	V
Input Voltage	$V_{IN}$	10	V
		-40	V
Output Current	$I_O$	-50	mA
Peak Collector Current	$I_{CM}$	-100	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_j$	-55~150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	$V_{I(off)}$	$V_{CC}=-5.0V$ $I_O=-100\mu A$	-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	$\mu A$
DC Current Gain	$G_1$	$V_O=-5.0V$ $I_O=-5.0mA$	30			
Resistance1	$R_1$		7	10	13	K
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





Dimensions In Millimeters		Dimensions In Millimeters	
A	115	A	115
B	35	B	35
C	35	C	35
D	75	D	75



H

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Note:

H      Company Code

14     Product Type Code



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.

260 5                            10 1 sec.                            Temp:260±5°C                            Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	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	20,000			7" x8	180x120x180	390x385x205