

/ Descriptions

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

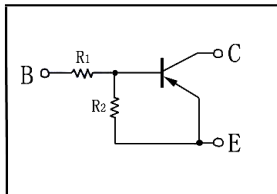
/ Features

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

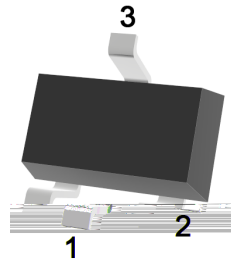
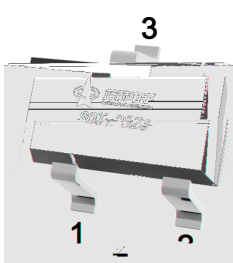
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN 1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

Marking	H33
---------	-----

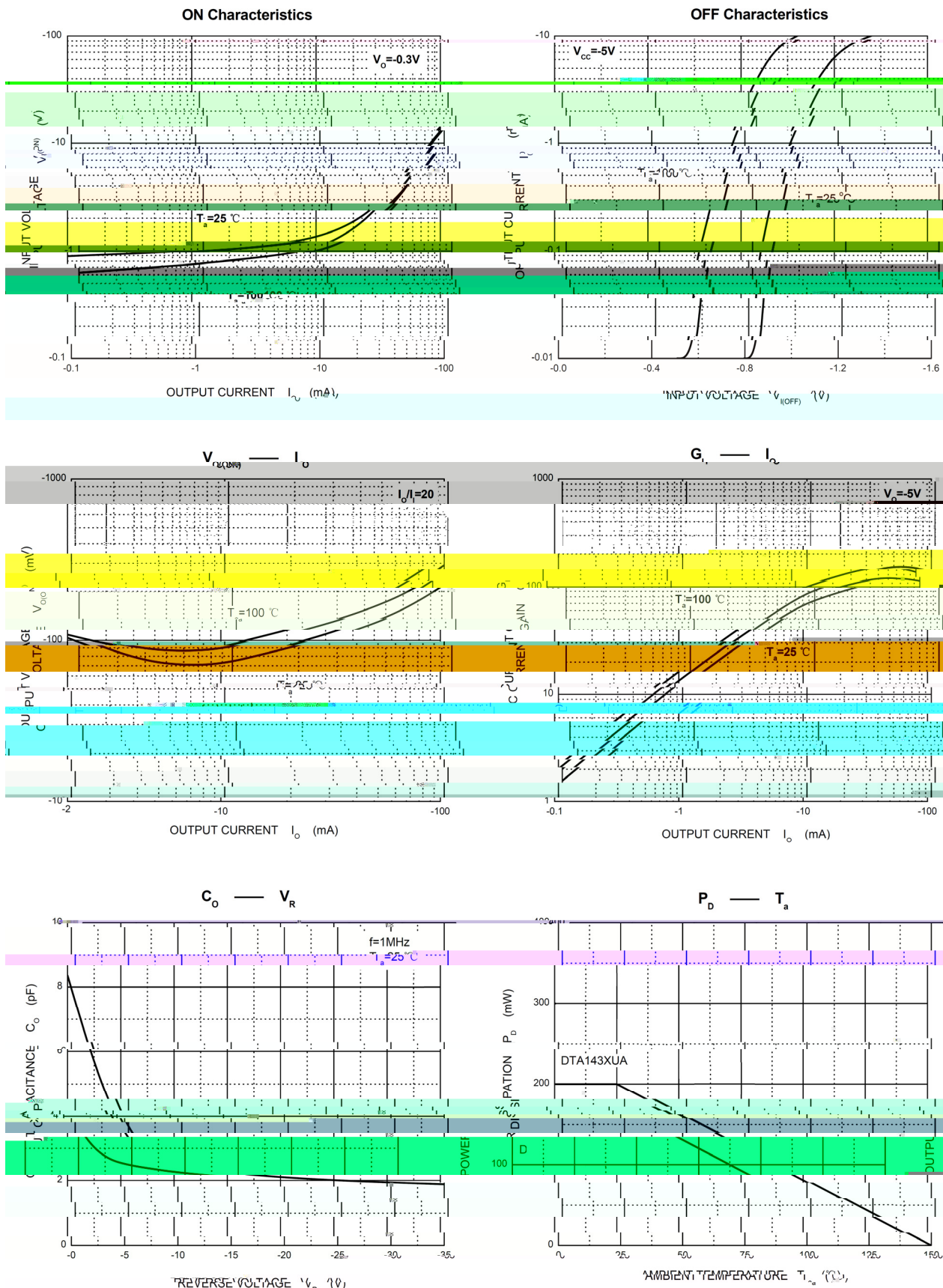
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	-50	V
Input Voltage	V _{IN}	-20	V
		7.0	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 =-100 A	-0.3			V
	V _{I(on)}	V _O =-0.3V I _O =-20mA			-2.5	V
Output Voltage	V _{O(on)}	I _O =-10mA I _I =-0.5mA		-0.1	-0.3	V
Input Current	I _I	V _I =-5.0V			-1.8	mA
Output current	I _{O(off)}	V _{CC} =-50V V _I =0V			-0.5	A
DC Current Gain	G _I	V _O =-5.0V I _O =-10mA	30			
Transition Frequency	f _T	V _O =-10V I _O =-5.0mA f=100MHz		250		MHz
Resistance1	R ₁		3.29	4.7	6.11	K
Resistance Ratio	R ₂ /R ₁		1.7	2.1	2.6	

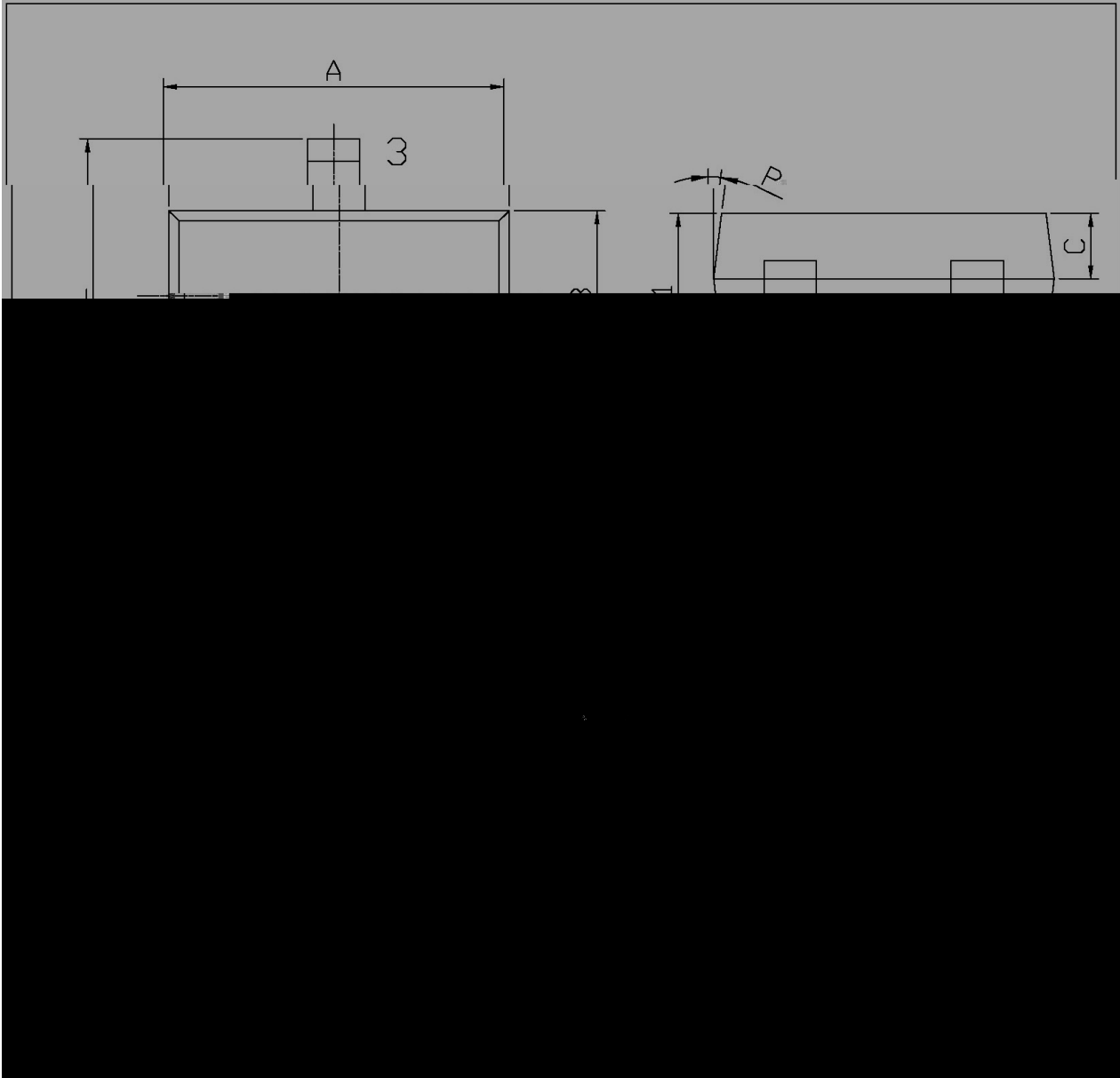
/ Electrical Characteristic Curve



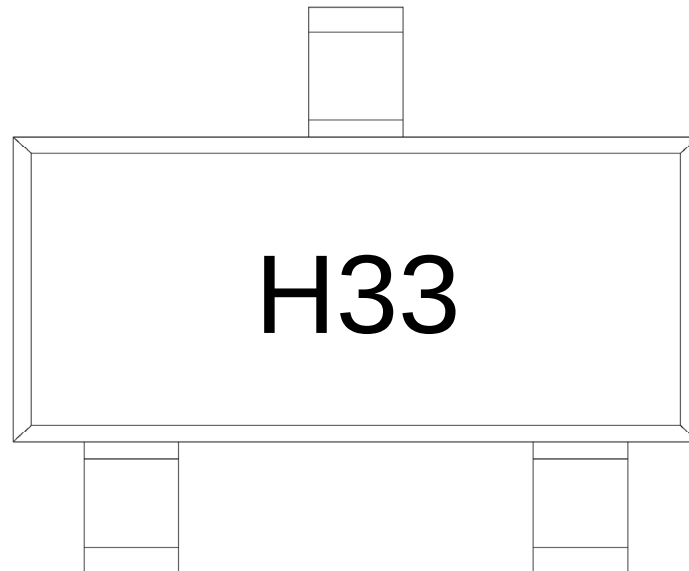
/ Package Dimensions

SOT-323

单位: mm



/ Marking Instructions



H

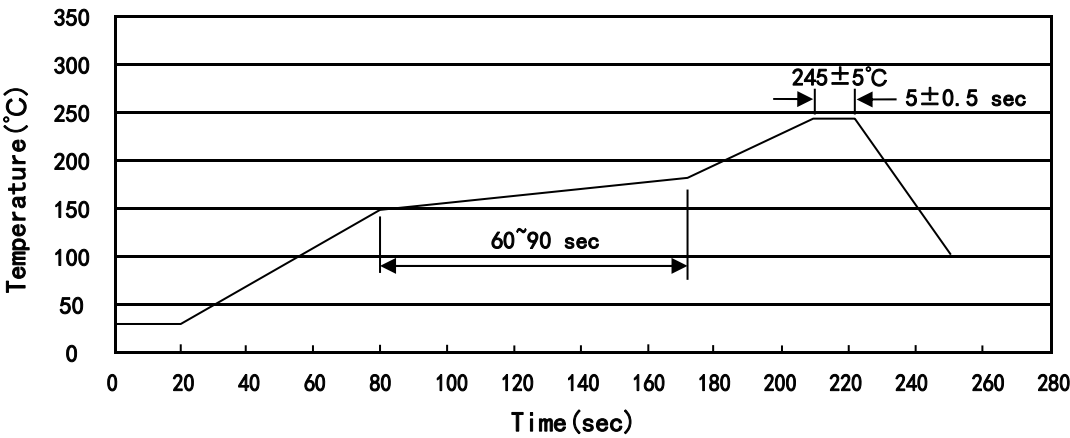
33

Note:

H Company Code

33 Product Type Code

() /



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)

/ Notices