5 é / Descriptions

9 5 : .> / / x J´ 6 4 6 ƒ â ’ož Silicon PNP Digital transistor in a SOT-323 Plastic Package.

¤ ª / Features

Ä x ž å Š k • ¿ è — ‹ k × 5 « ^ y ò - v i k —)í D }ož

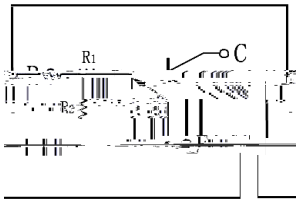
With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process,HF Product.

Ð ÷ / Applications

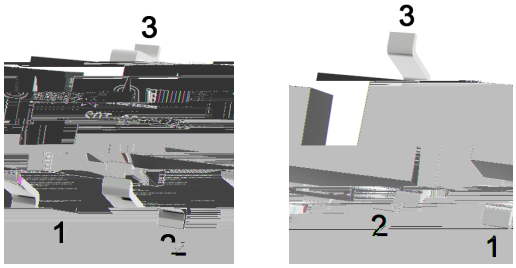
9 • ¼o• F , èo• µ è Y C Ü è ož

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

Ã W] Ô · / Equivalent Circuit



• Û - æ / Pinning



PIN 1 y Base PIN 2 y Emitter PIN 3 y Collector

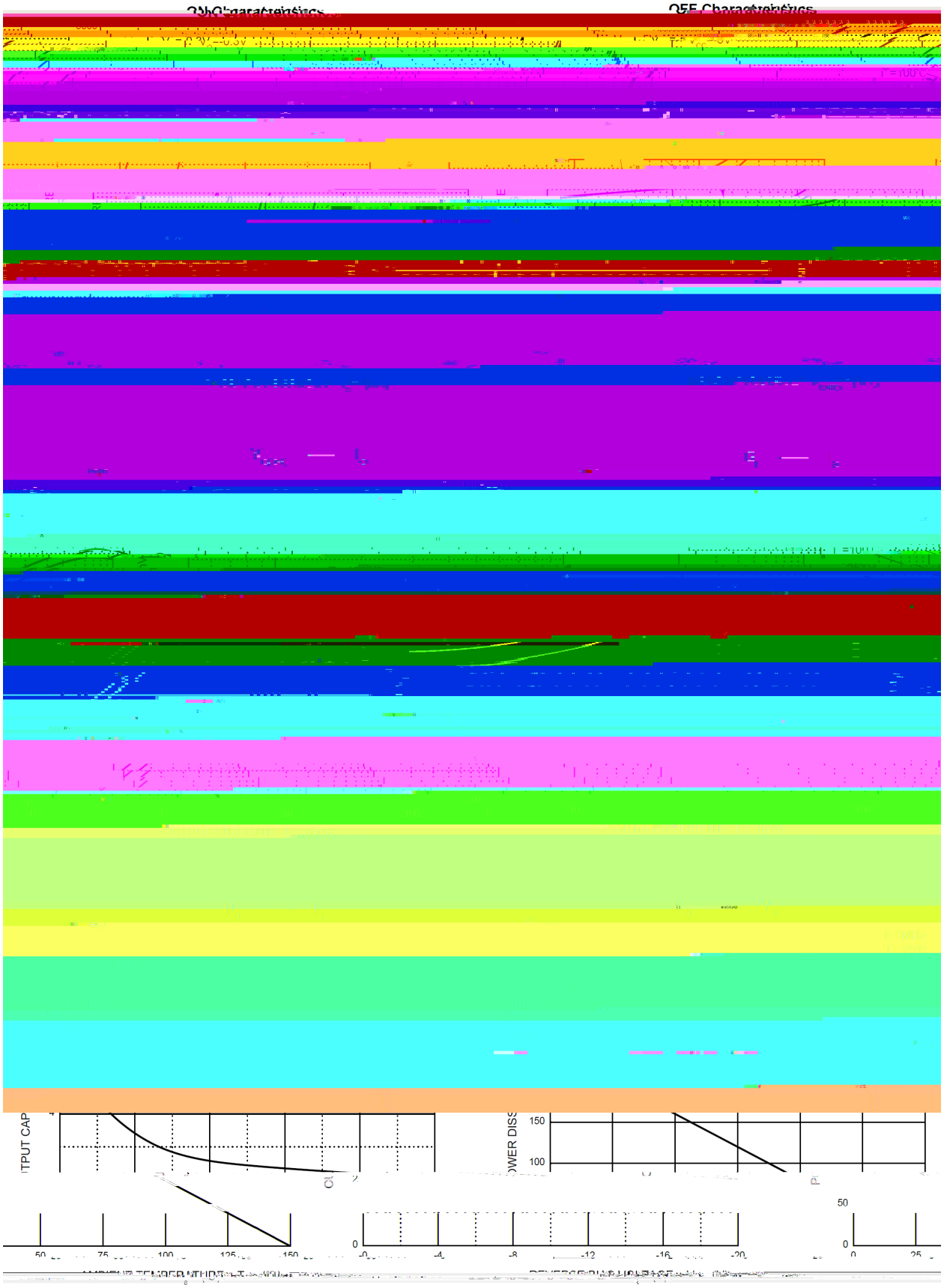
Z Ü B , M V / h_{FE} Classifications & Marking

Marking	HE11

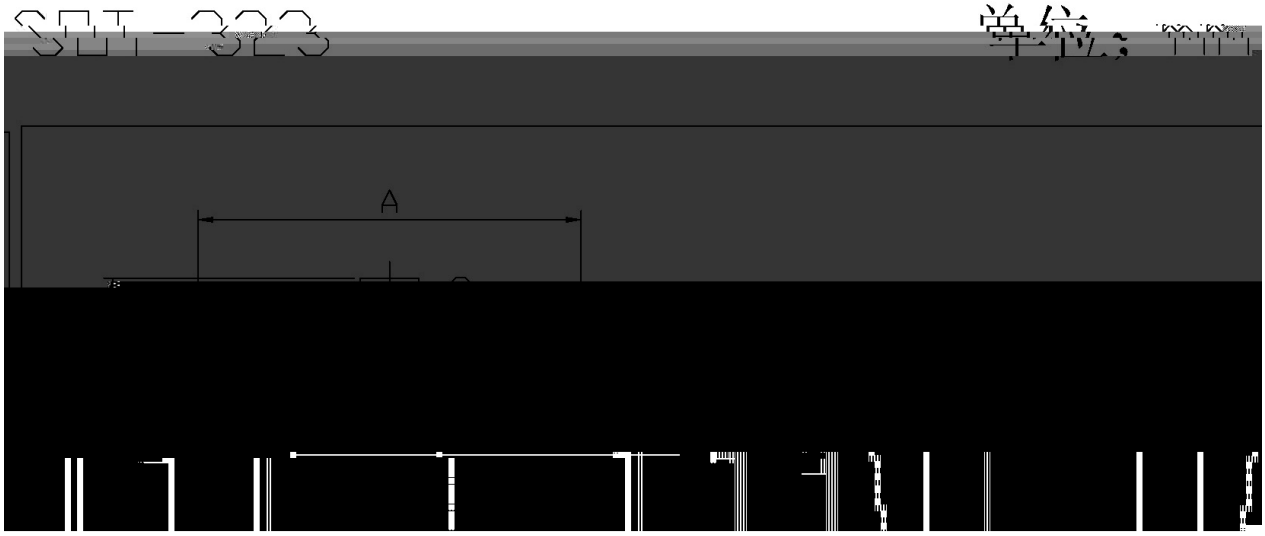
@ ƒ Parameter	… Z Symbol	ƒ › Rating	% y Unit
Supply Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-10	V
		5	V
Output Current	I_O	-100	mA
Power Dissipation	P_D	200	mW
Operation Junction and Storage Temperature Range	T_J,T_{stg}	-55 150	

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Input Voltage	$V_{I(off)}$	V_{CC}=-5.0V I				

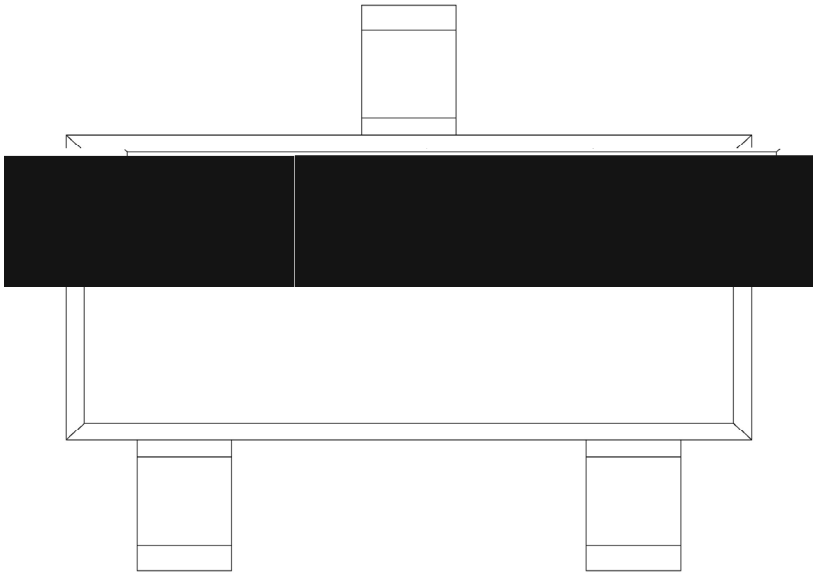
Ô ? d • Ž ¢ / Electrical Characteristic Curve



Ø ¤ =) ¢ / Package Dimensions



, M y ƒ / Marking Instructions



ª ¢ y

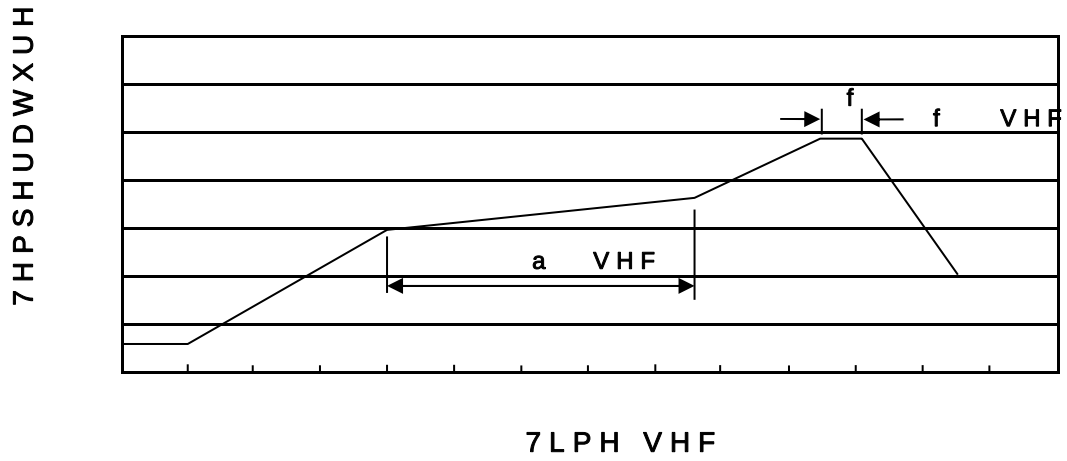
. y ¸ [W A

E11 y º Z W A

Note:

. y

š WD t ... • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



7 L P H V H F

ª ¢ y

Note:

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

1.Preheating:150~180 - , Time:60~90sec.

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ˜ E	Units ;>û ¦H					Dimension ;>û p . (unit Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SOT-323	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„ Ð y ƒ / Notices