5 é / Descriptions

9 5 : .> / / x 4 6 4 4 6 4 ƒ â ’ož
* U [H Silicon 4 6 4and N 6 4transistor in a SOT-363 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• µ è Y C Ü è ož
Switching applications, interface circuit and driver circuit applications.

Ã W] Ô · / Equivalent Circuit

• Û - æ / Pinning

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

Marking	H214

$ Ã a Ã a ? d / Absolute Maximum Ratings(Each Transistor,Ta=25 ;)

@ *f* Parameter	… Z Symbol	*f* › Rating	% y Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-6	V
Output Current	I_{CM}	100	mA
	I_O	70	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

$ Ã a Ô4ì × ? d / Electrical Characteristics((Each Transistor,Ta=25 ;)

@ *f* Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Input Voltage(OFF)	$V_{I(off)}$	v_{CC}=5.0V I_O=100 A	0.3			V
Input Voltage(ON)	$V_{I(on)}$	V_O=0.3V I_O=1mA			1.4	V
Output Voltage	$V_{O(on)}$	I_O =5mA I_I=0.25mA			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	A
DC Current Gain	G_I	V_O=5.0V I_O=5.0mA	68			
Transition Frequency	f_T	V_{CE}=10V I_C=5.0mA f=100MHz		250		MHz
Resistance1	R_1		7	10	13	K
Resistance Ratio	R_2/R_1		3.7	4.7	5.7	

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø ¤ =) ¢ / Package Dimensions

, M y ƒ / Marking Instructions

H214 ⁑
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Note:

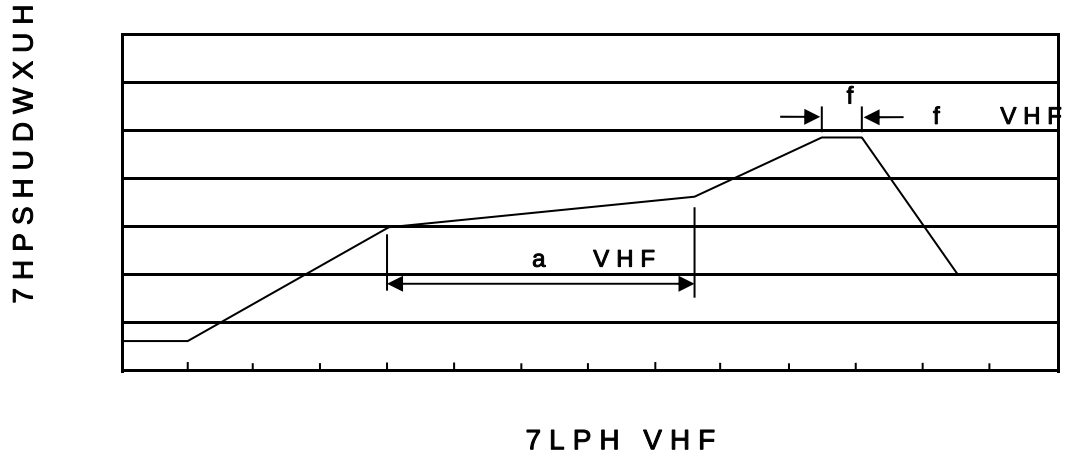
y 6 O T

H y Company Code

y Product Type Code

Lot No. Code, code change with Lot No

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



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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-363	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„ Ð y ƒ / Notices