

5 é / Descriptions

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* U [H B i k c o n 4 6 4 and N 6 4 transistor in a SOT-363 Plastic Package

α a / Features

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

Đ ÷ / Applications

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Switching applications, interface circuit and driver circuit applications.

Ã W] Ô · / Equivalent Circuit

• Ů - æ / Pinning

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

Marking	H214
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§ Absolute Maximum Ratings(Each Transistor, $T_a=25^\circ\text{C}$;)

@ f Parameter	Symbol	f Rating	% 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	

§ Electrical Characteristics((Each Transistor, $T_a=25^\circ\text{C}$;)

@ f Parameter	Symbol	Test Conditions	Min	Typ	Max	% Unit
Input Voltage(OFF)	$V_{I(off)}$	$V_{CC}=5.0V$ $I_O=100\text{ }\mu\text{A}$	0.3			V
Input Voltage(ON)	$V_{I(on)}$	$V_O=0.3V$ $I_O=1\text{mA}$			1.4	V
Output Voltage	$V_{O(on)}$	$I_O=5\text{mA}$ $I_I=0.25\text{mA}$			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	$V_O=5.0V$ $I_O=5.0\text{mA}$	68			
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=5.0\text{mA}$ $f=100\text{MHz}$		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

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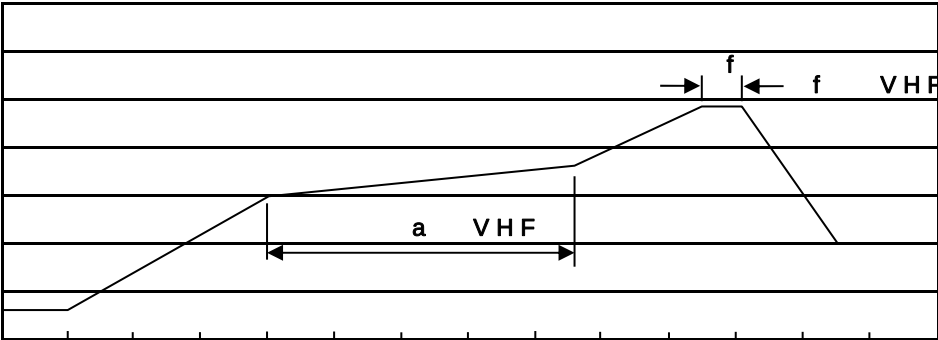
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6 O T

Lot No. Code, code change with Lot No

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a ç y

- 10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;
- 20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 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 Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-363	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„Đ y f / Notices