

Ø / Descriptions

SOT-363 NPN+NPN

Double silicon NPN and NPN transistor in a SOT-363 Plastic Package

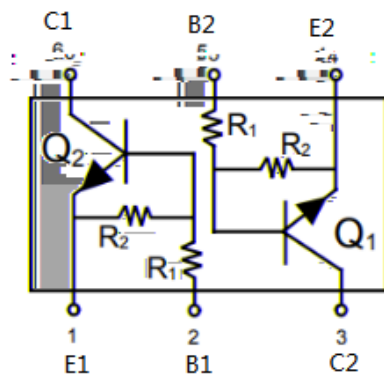
// / Features

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

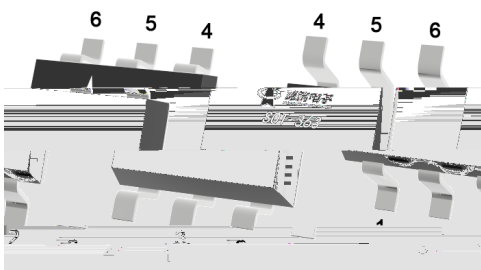
÷ / Applications

Switching applications, interface circuit and driver circuit applications.

⦿ / Equivalent Circuit



🔌 / Pinning



🔌 / hFE Classifications & Marking

Marking	H214
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1 / Absolute Maximum Ratings(Each Transistor,Ta=25;)

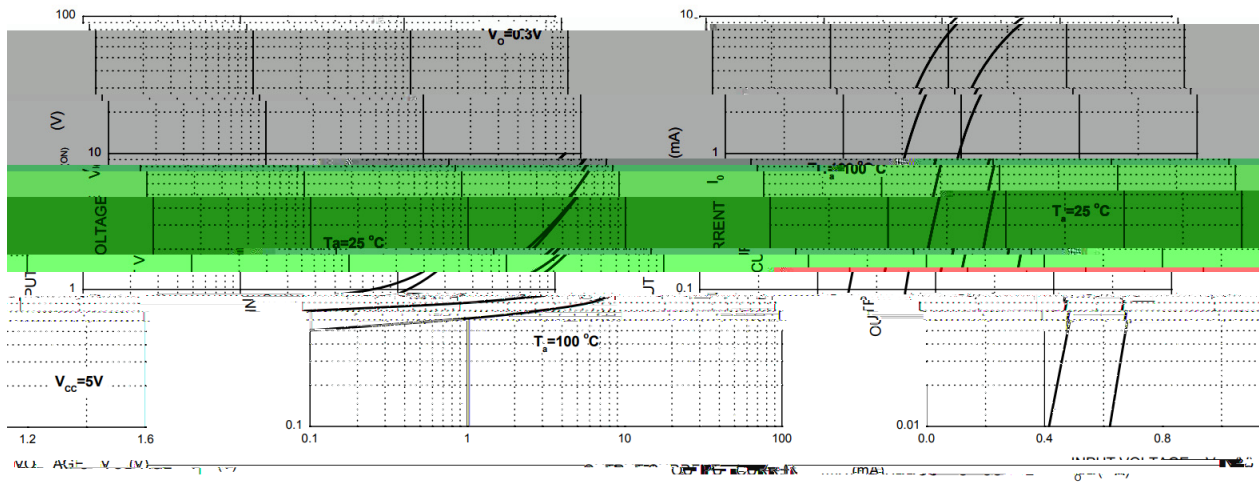
Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-6	V
Output Current	I_{CM}	100	mA
	I_O	70	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

2 / Electrical Characteristics((Each Transistor,Ta=25;)

Parameter	Symbol	Test Conditions	Min	Typ	Max	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	

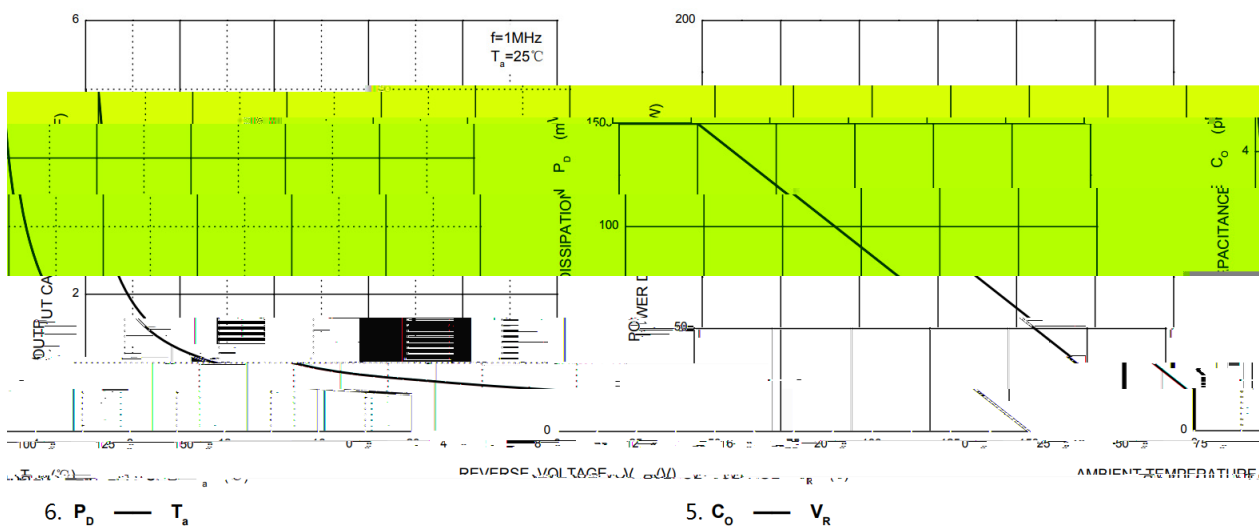
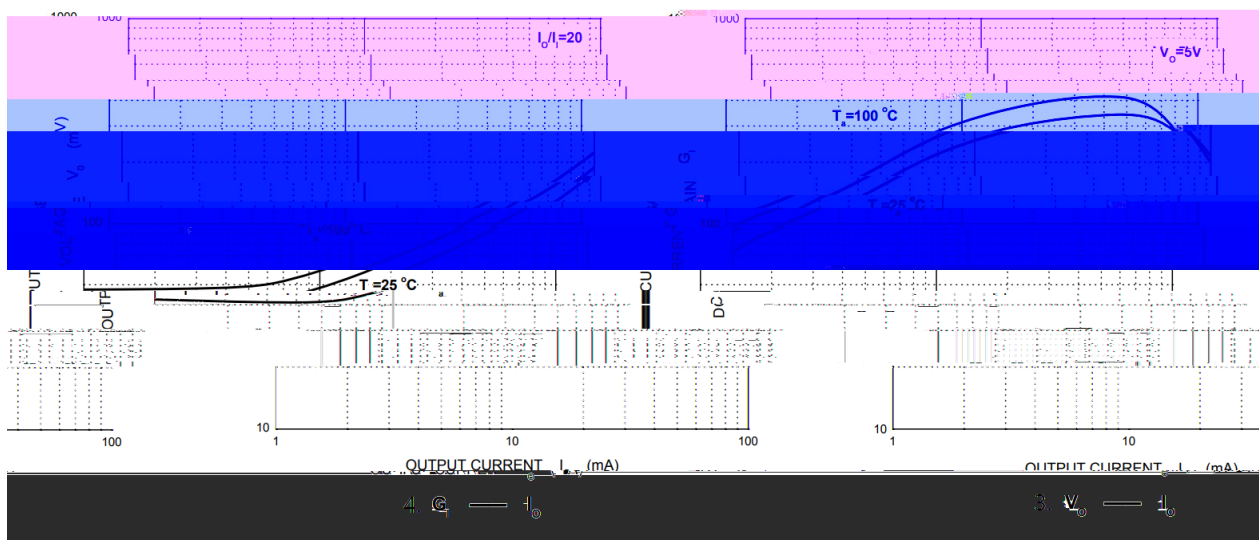


/ Electrical Characteristic Curve

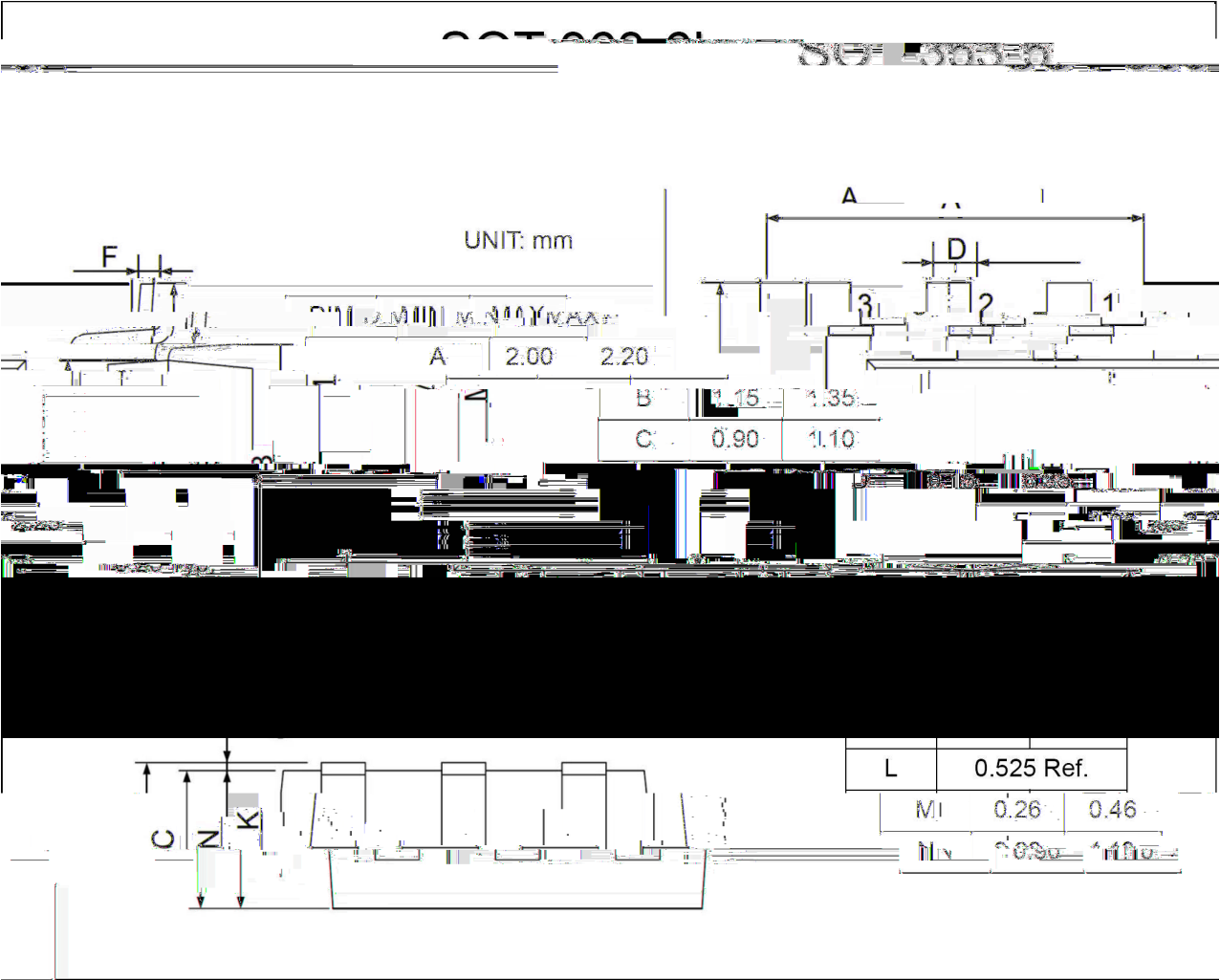


2. OFF Characteristics

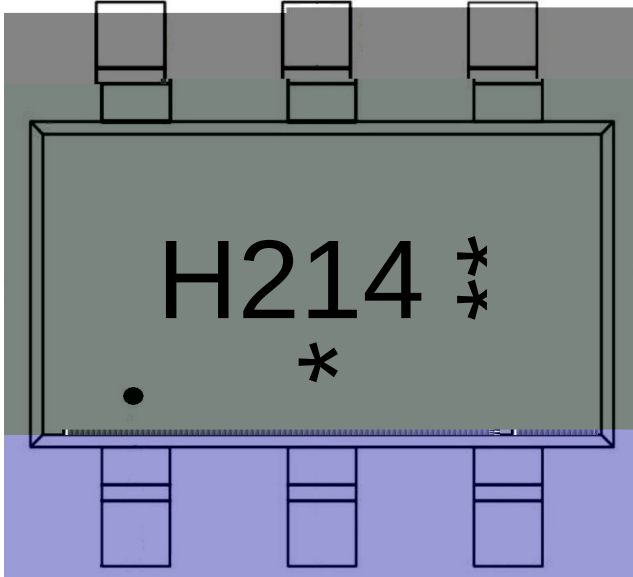
1. ON Characteristics

6. P_d — T_a 5. C_o — V_R

Package Dimensions



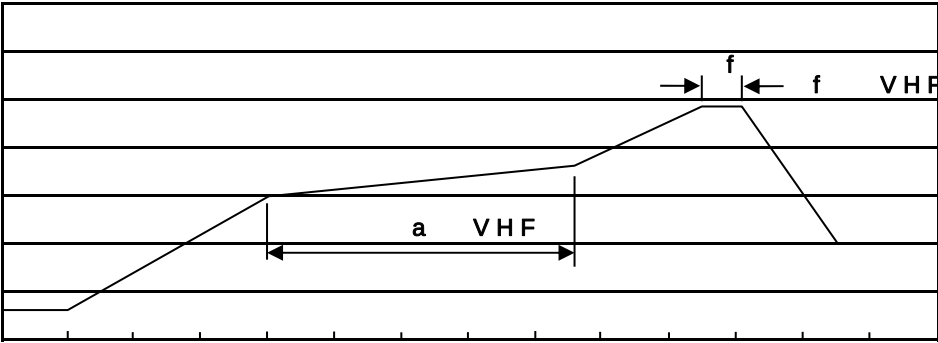
 / Marking Instructions



	" 1 "
H	Company Code
214	Product Type Code
***:	Lot No. Code, code change with Lot No
Note:	
	" 1 " Pin
H	Company Code
214	Product Type Code
***:	Lot No. Code, code change with Lot No

1. Thermal Characteristics

7HPSHUDWXUH



7LPH VHF

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. |

2. Resistance to Soldering Heat Test Conditions

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

3. Packaging SPEC.

/ 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

4. Notices