

Rev.A Dec.-2024

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silicon and N transistor in a SOT-363 Plastic Package

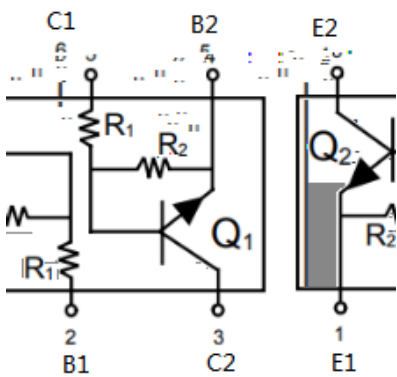
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With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, HF Product.

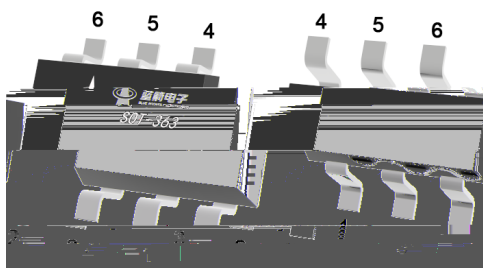
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Switching applications, interface circuit and driver circuit applications.

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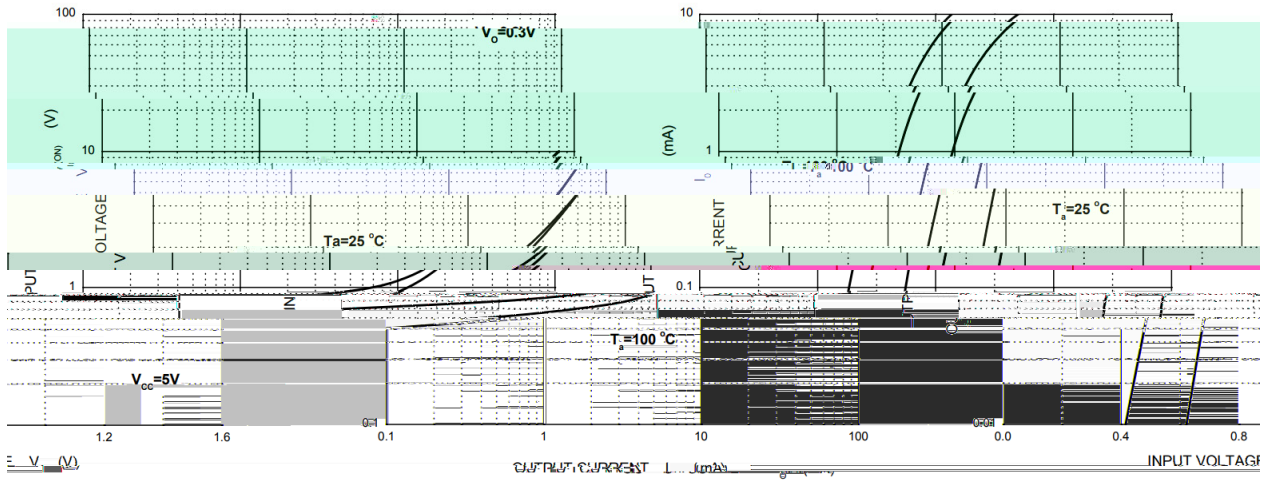
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Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-6	V
Output Current	I_{CM}	100	mA
	I_o	70	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

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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	

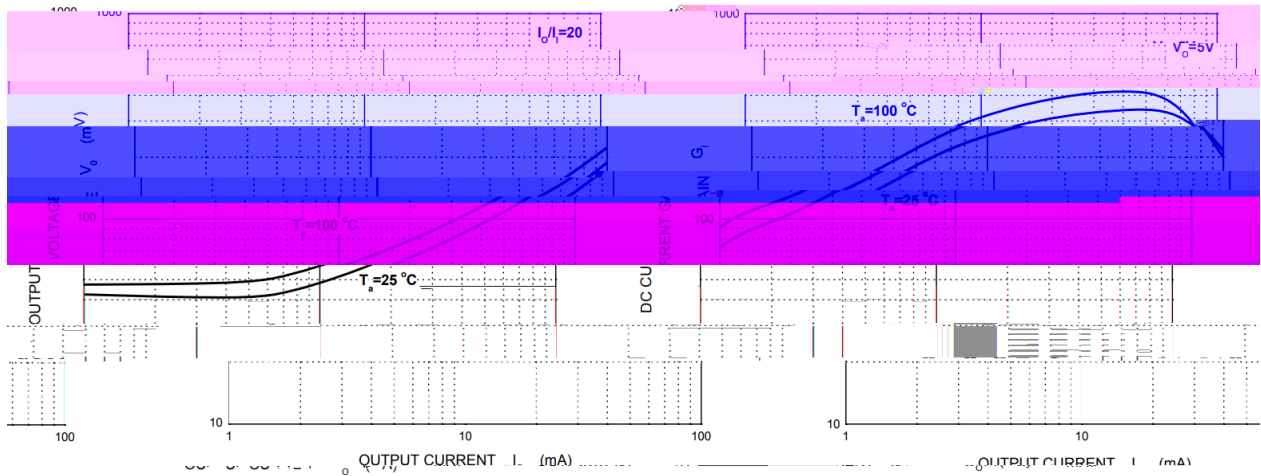
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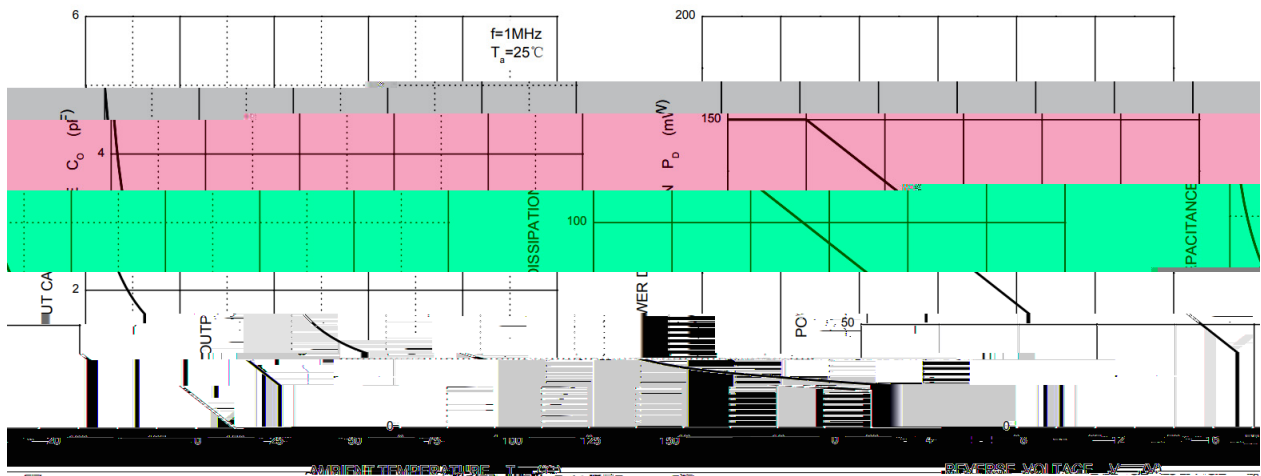


2. OFF Characteristics

1. ON Characteristics

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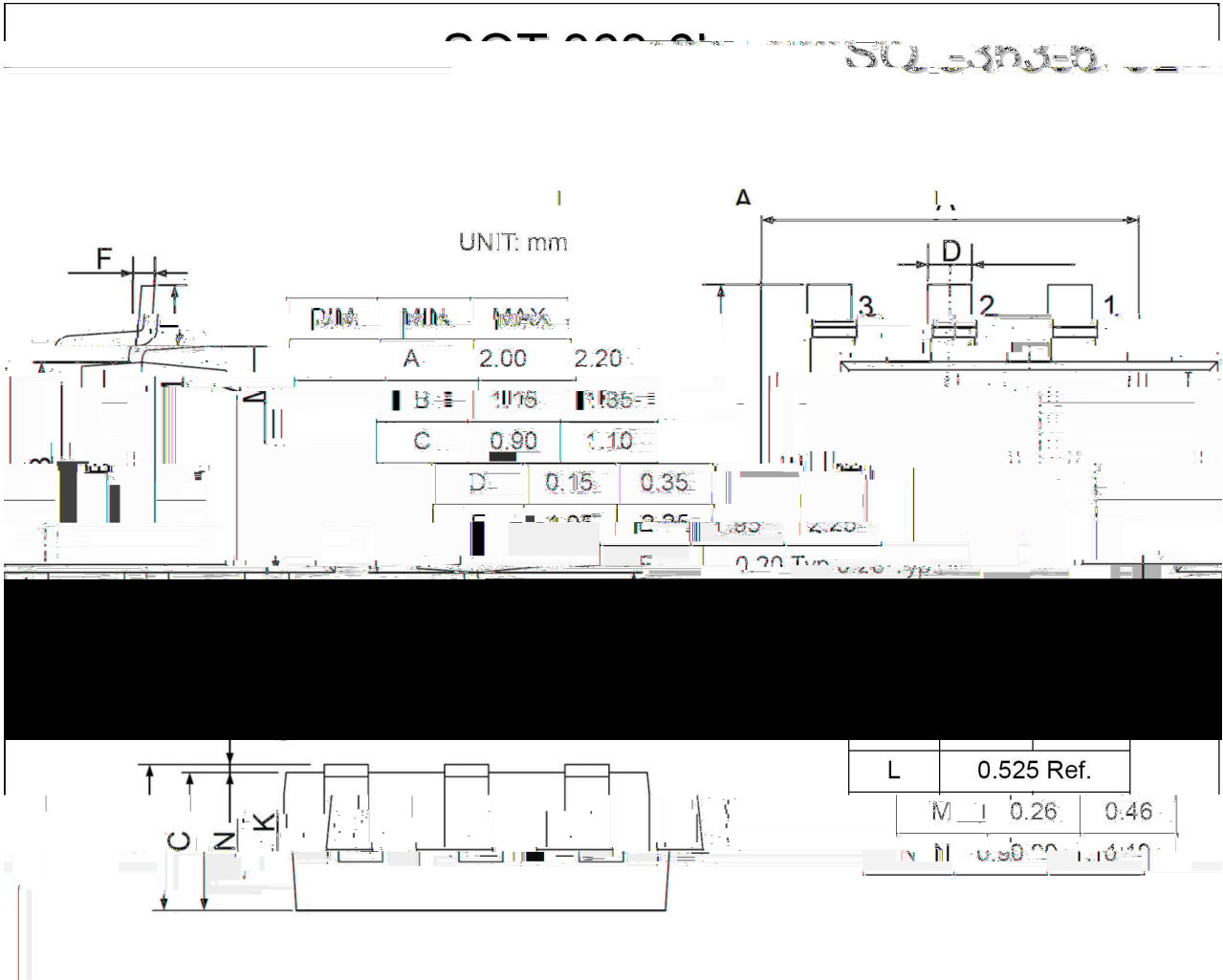

 4. $G_1 - I_o$

 3. $V_o - I_o$

 V_R

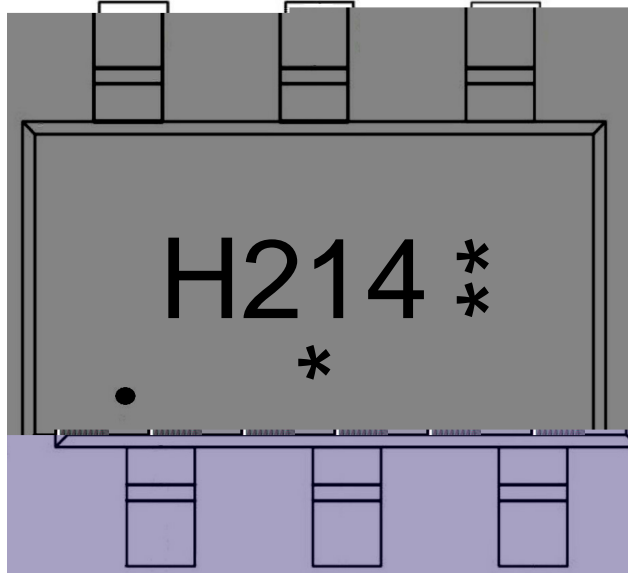
 6. $P_d - T_a$

 5. $C_o - V_R$

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Note:

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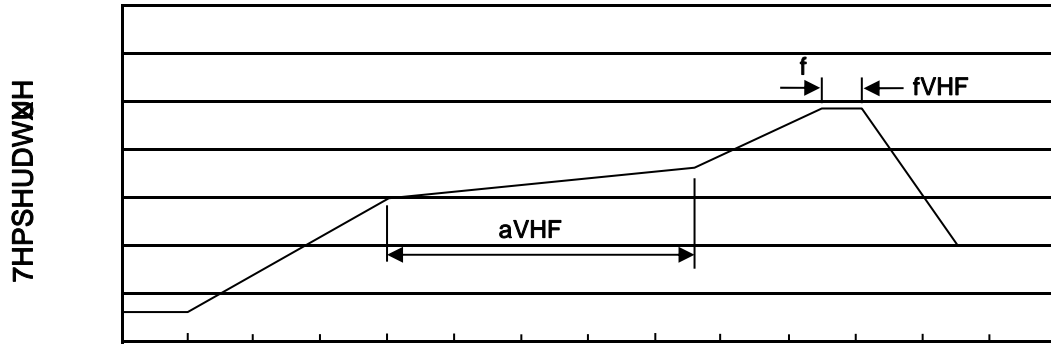
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Company Code

Product Type Code

Lot No. Code, code change with Lot No

WD t ¢ x / : KSVKXGZ [XK 6XULORK LUX / 8 8KLRU] 9URJKXC


7LPHVHF

Note:

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|---|---------|-----------|---|
| 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. |

1D /Cª p fl »]

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

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Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Æmm³)		
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SOT-363	3,000	10	30,000	6	180,000	7 S x 8	180x120x180	390x385x205

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