



**/ Descriptions**

SOT-363  
Silicon Diode in a SOT-363 Plastic Package.

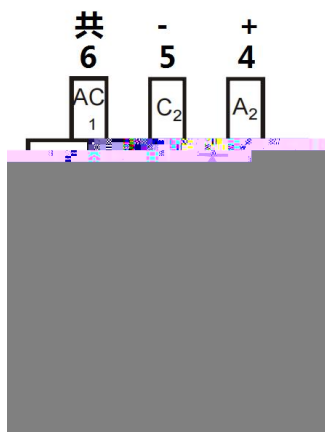
**/ Features**

Small signal diode, Fast Switching Speed. HF Product.

**/ Applications**

High Conductance Ultra Fast Diode.

**/ Equivalent Circuit**

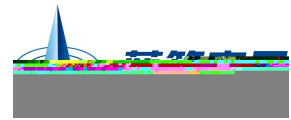


**/ h<sub>FE</sub> Classifications & Marking**

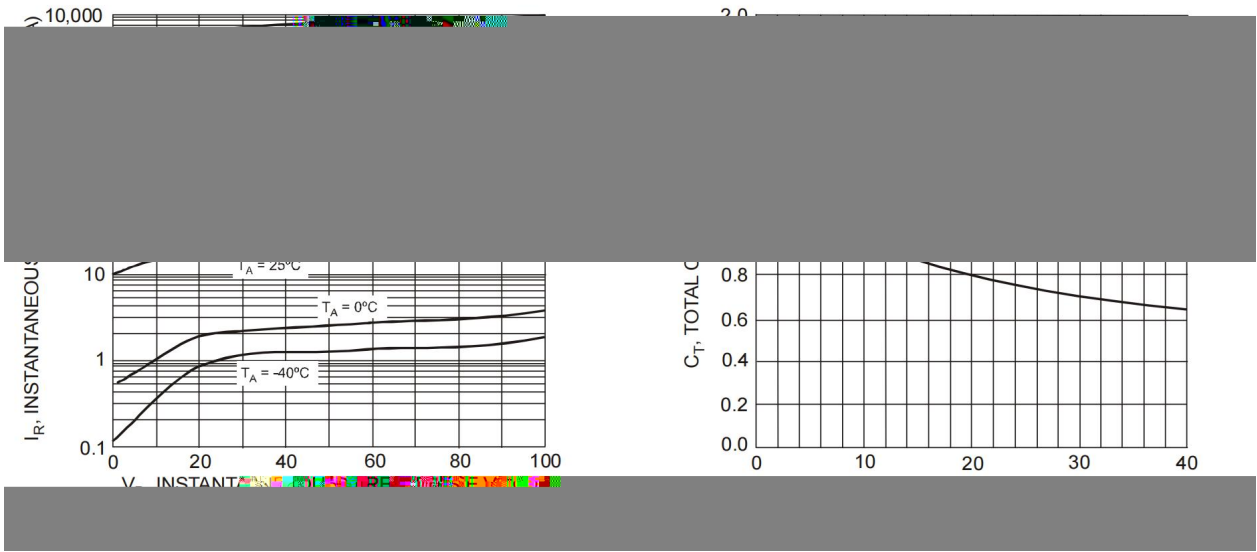
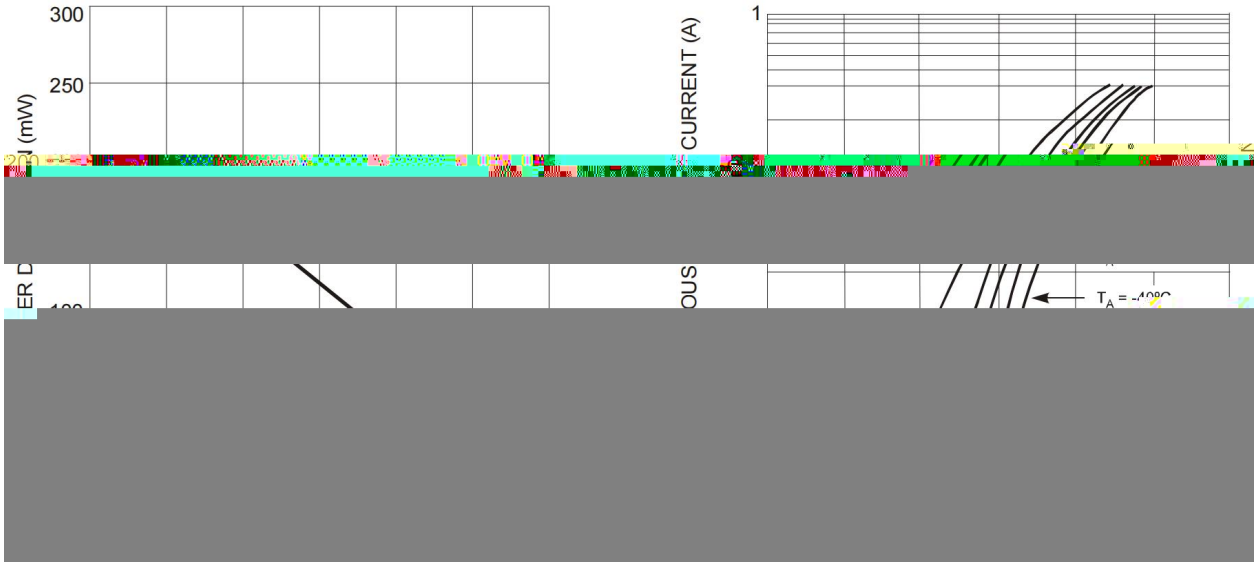
See Marking Instructions.

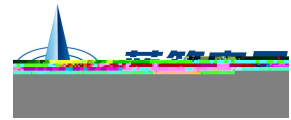
Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$	75	V
	$V_{RWM}$		
	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	$I_{FM}$	215	mA
Non-Repetitive Peak Forward Surge Current@8.3mS	$I_{FSM}$	2.0	A
Power Dissipation	$P_D$	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150	°C

Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 2.5 \mu A$	75		V
Forward Voltage	$V_F$	$I_F = 1.0mA$		0.715	V
		$I_F = 10mA$		0.855	
		$I_F = 50mA$		1.0	
		$I_F = 150mA$		1.25	
Reverse Current	$I_R$	$V_R = 75V$		2.5	$\mu A$
		$V_R = 20V$		25	nA
Total Capacitance	$C_T$	$V_R = 0, f = 1.0MHz$		2.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10mA,$ $I_{rr}$			

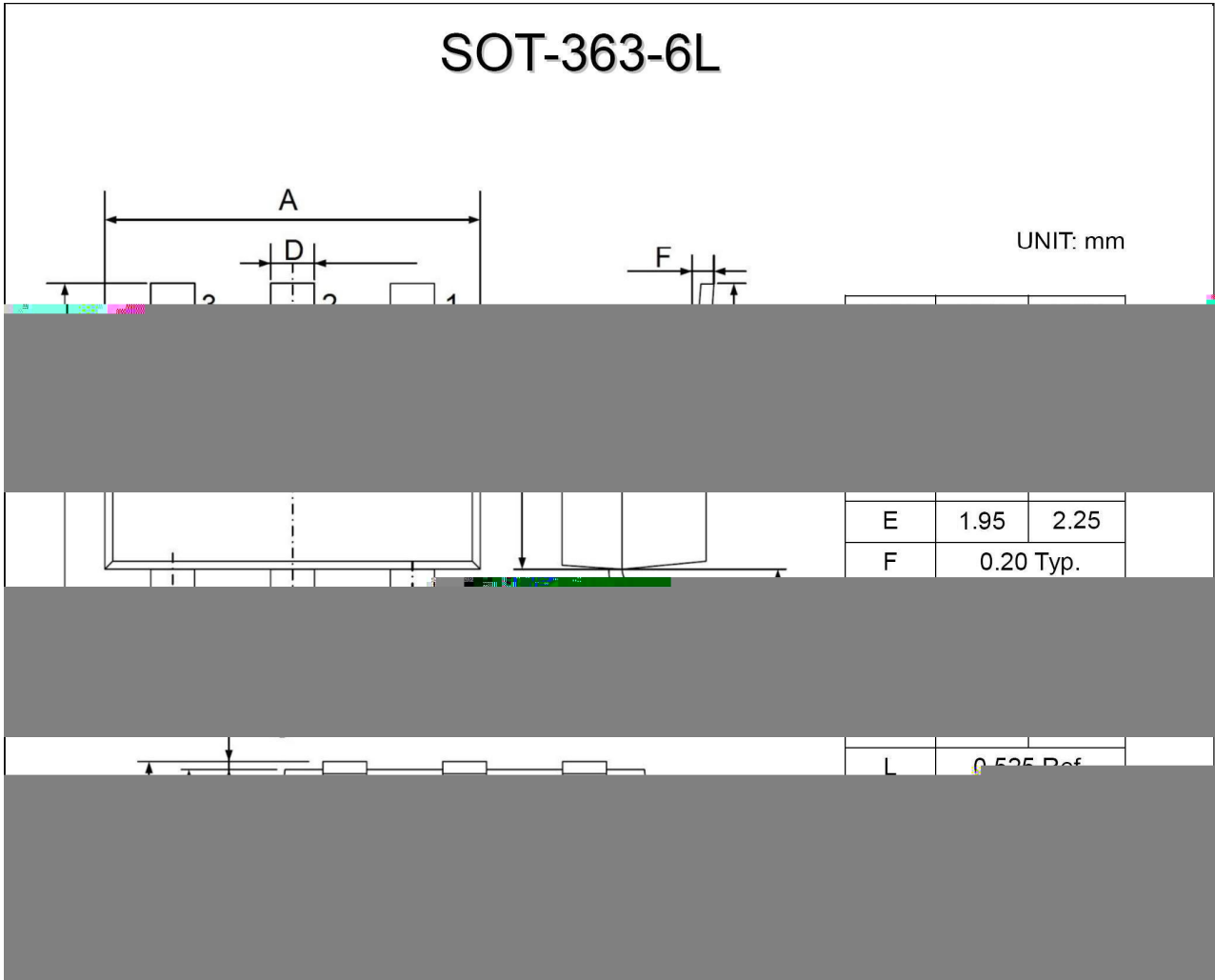


**/ Electrical Characteristic Curve(NPN)**

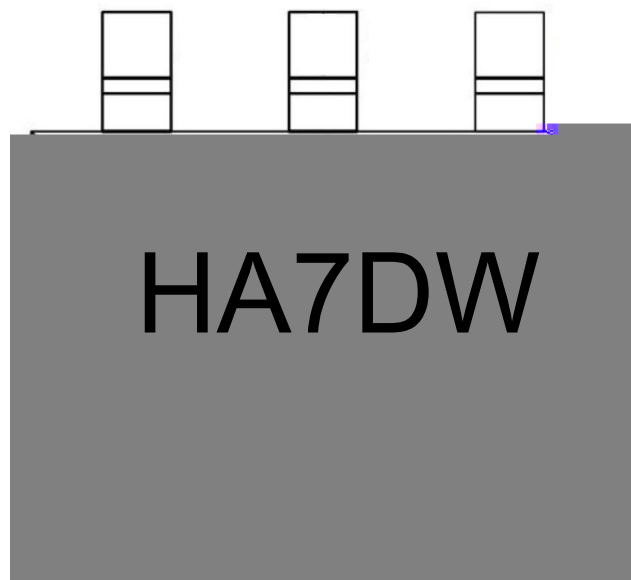




**/ Package Dimensions**



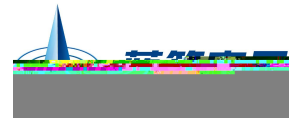
**/ Marking Instructions**



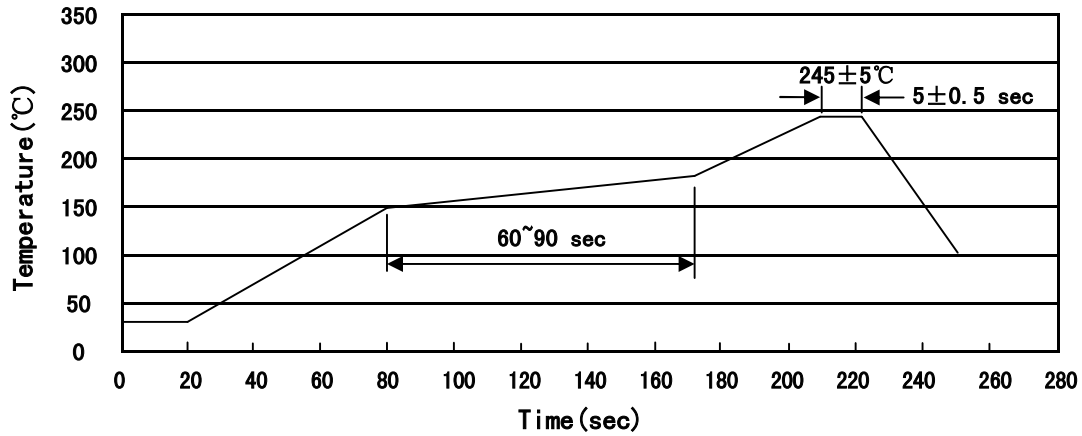
● 1  
HA7DW

Note:

● "1" Pin  
HA7DW Product Type Code



( ) / Temperature Profile for IR Reflow Soldering (Pb-Free)



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.            |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-363	3,000	10	30,000	6	1 0000	"	1 0 1 0 1 0	3x0 3 0

/ Notices