

/ Revised record

A	2021.06.09		DIODES/JSCJ/MCC/Semiteh- BAV99DW		
B	2021-10-26	4			

/ 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

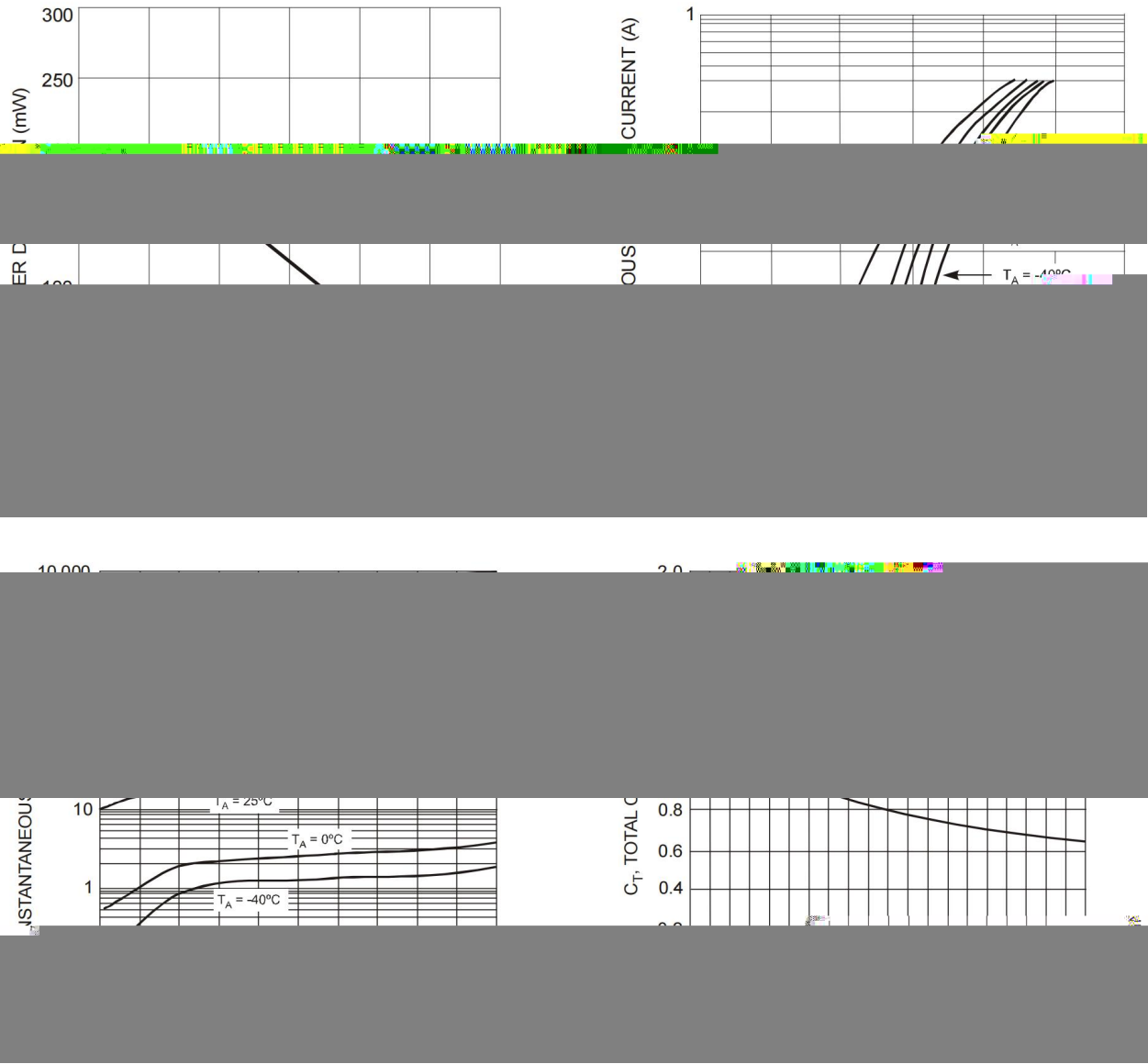
/ h_{FE} Classifications & Marking

See Marking Instructions.

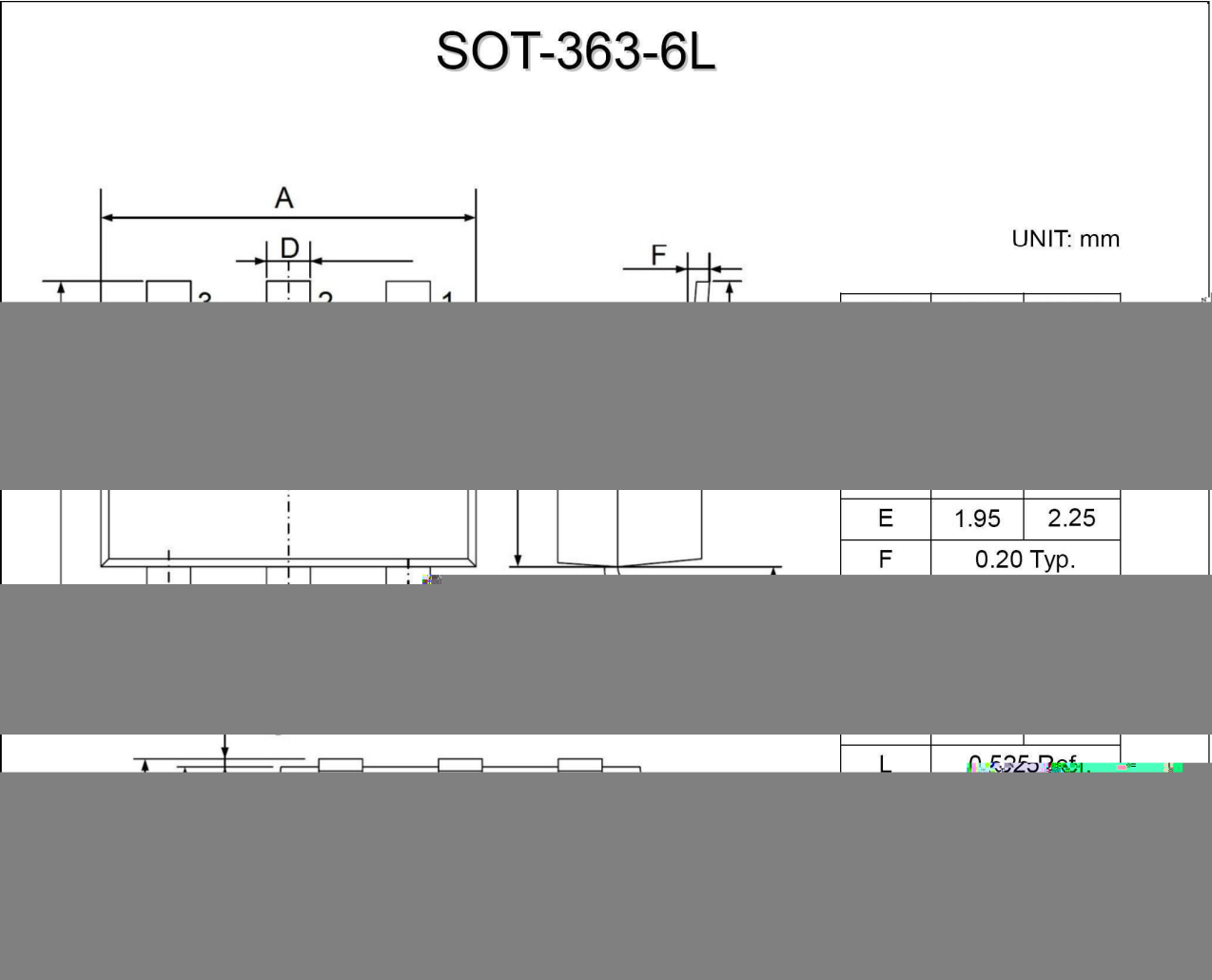
Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM}	75	V
	V_{RWM}		
	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	215	mA
Non-Repetitive Peak Forward Surge 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	μA
		$V_R = 20V$		25	nA
Total Capacitance	C_T	$V_R = 0, f = 1.0MHz$		2.0	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R \neq 10mA,$ I_{rr}			

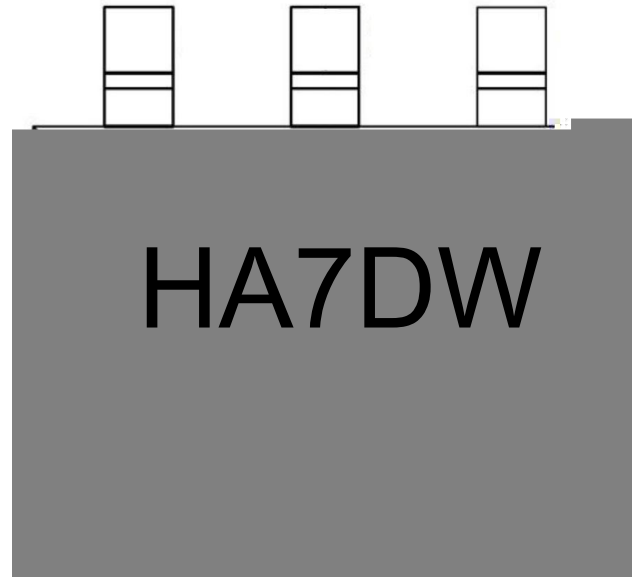
/ Electrical Characteristic Curve(NPN)



/ Package Dimensions



/ Marking Instructions

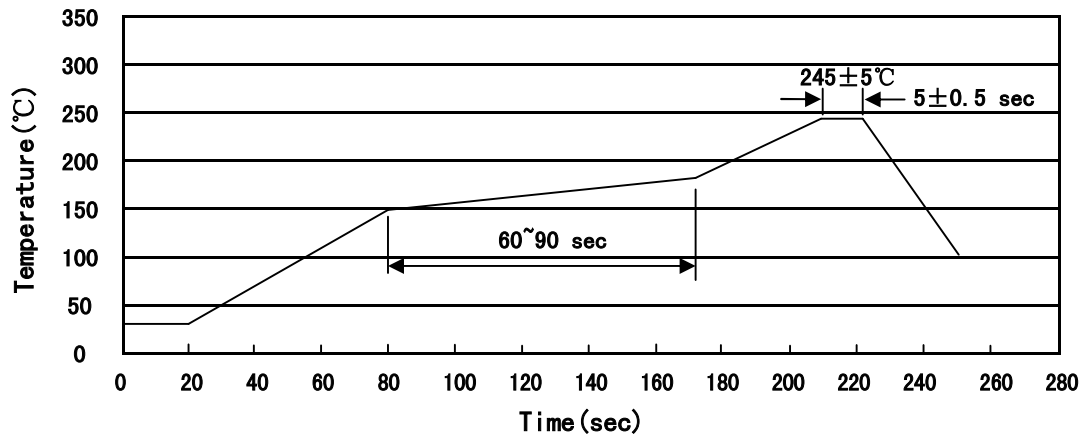


● 1
HA7DW

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	Units					Dimension (unit mm ³)		
	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	Outer Box
SOT-363	3,000	10	30,000	6	180000	" 8	180 1 0 180	3 0 38 0

/ Notices