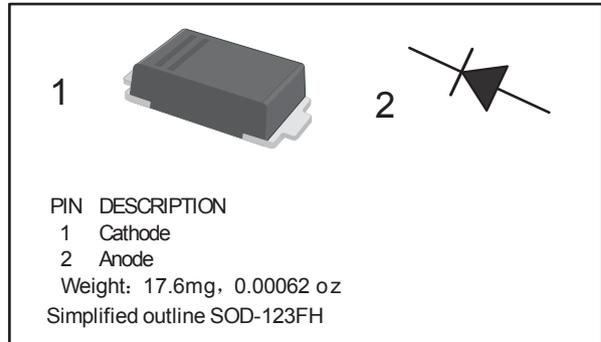


## Schottky Diodes

## SS110FH

## ■ Features

- High Breakdown Voltage
- Low Turn-on Voltage
- Guard Ring Construction for Transient Protection

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Average Rectified Forward Current	$I_O$	75	mA
Forward Continuous Current	$I_F$	150	
Repetitive Peak Forward Current @ $t_p=1s$ , Duty Cycle < 50%	$I_{FRM}$	350	
Forward Surge Forward Current @ $t_p=10ms$	$I_{FSM}$	750	
Power Dissipation	$P_D$	200	mW
Thermal Resistance Junction to Ambient (Note.1)	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to 150	

Note.1 Part mounted on FR-4 board with recommended pad layout

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 100 \mu\text{A}$	100			V
Forward voltage	$V_{F1}$	$I_F = 0.1 \text{ mA}$			0.25	
	$V_{F2}$	$I_F = 10 \text{ mA}$			0.45	
	$V_{F3}$	$I_F = 250 \text{ mA}$			1	
Reverse voltage leakage current (Note.1)	$I_{R1}$	$V_R = 1.5 \text{ V}$			0.5	$\mu\text{A}$
	$I_{R2}$	$V_R = 1.5 \text{ V}, T_J = 60^\circ\text{C}$			5	
	$I_{R3}$	$V_R = 10 \text{ V}$			0.8	
	$I_{R4}$	$V_R = 10 \text{ V}, T_J = 60^\circ\text{C}$			7.5	
	$I_{R5}$	$V_R = 50 \text{ V}$			2	
	$I_{R6}$	$V_R = 50 \text{ V}, T_J = 60^\circ\text{C}$			15	
	$I_{R7}$	$V_R = 75 \text{ V}$			5	
	$I_{R8}$	$V_R = 75 \text{ V}, T_J = 60^\circ\text{C}$			20	
Capacitance between terminals	$C_T$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		10		pF
		$V_R = 1 \text{ V}, f = 1 \text{ MHz}$		6		

Note.1 Short duration test pulse used to minimize self-heating effect.

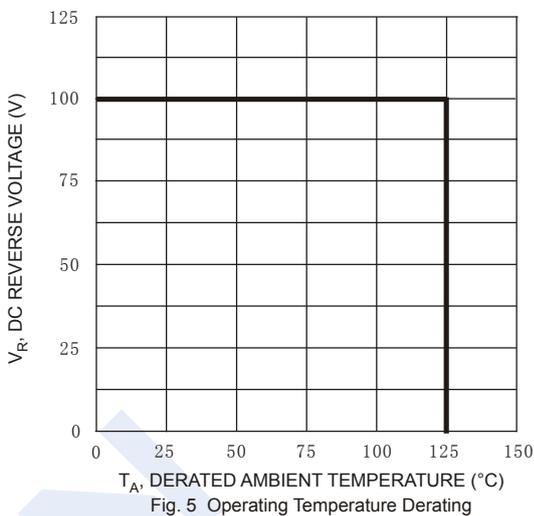
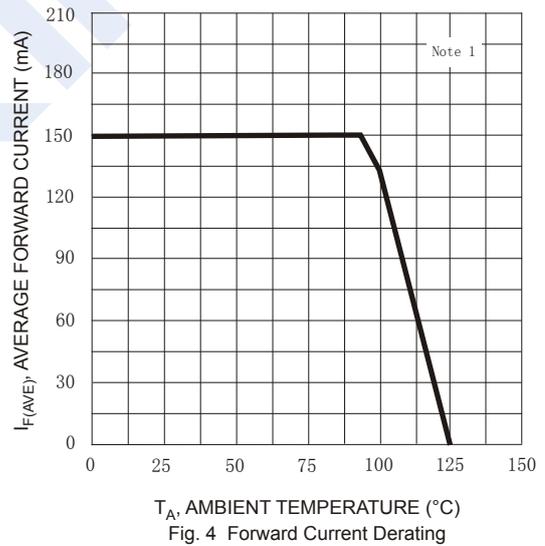
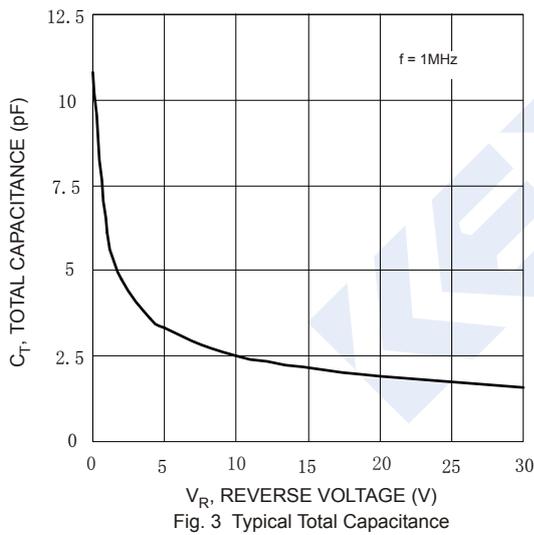
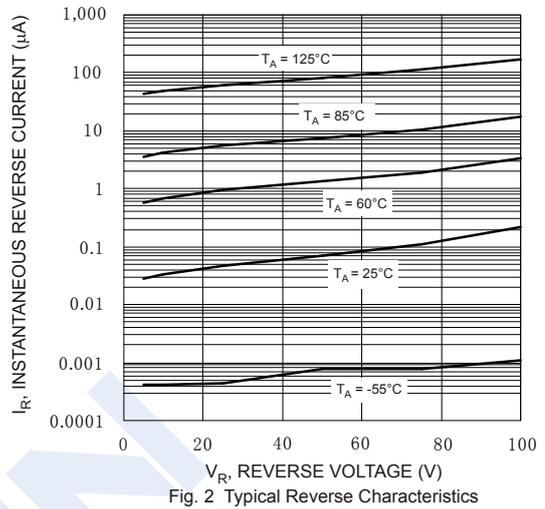
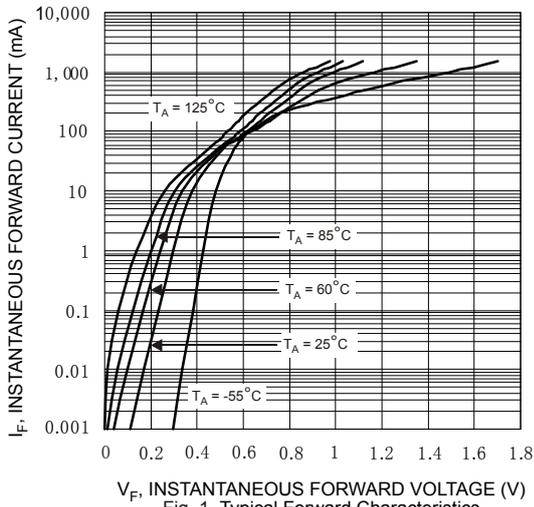
## ■ Marking

Marking	XH
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# Schottky Diodes

## SS110FH

### Typical Characteristics



### Schottky Diodes

### SS110FH

■ Typical Application

Plastic surface mounted package; 2 leads

