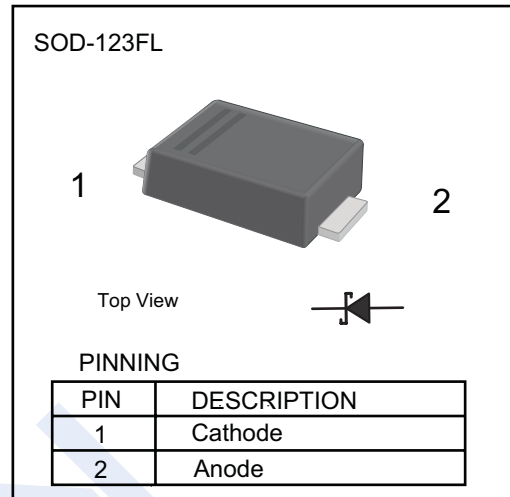


Schottky Diodes

SS12FL ~ SS120FL

■ Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



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

Parameter	Symbol	SS 12FL	SS 14FL	SS 16FL	SS 18FL	SS 110FL	SS 112FL	SS 115FL	SS 120FL	Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V	
Surge Peak Reverse Voltage	V_{RSM}	14	28	42	56	70	84	105	140		
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200		
Averaged Forward Current	I_o	1								A	
Peak forward surge current	I_{FSM}	40				30					
Instantaneous Forward Voltage at 1A	V_F	0.55		0.7		0.85		0.9		V	
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	0.3				0.2		0.1		mA	
		10				5		2			
Typical Junction Capacitance *1	C_j	110			80					pF	
Typical thermal resistance *2	R_{thJA}	100									$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150									$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150									

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C

* 2 P.C.B. mounted with 2" × 2" (5×5 cm) copper pad areas.

■ Marking

NO.	SS12FL	SS14FL	SS16FL	SS18FL	SS110FL	SS112FL	SS115FL	SS120FL
Marking	S12	S14	S16	S18	S110	S112	S115	S120

Schottky Diodes

SS12FL ~ SS120FL

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

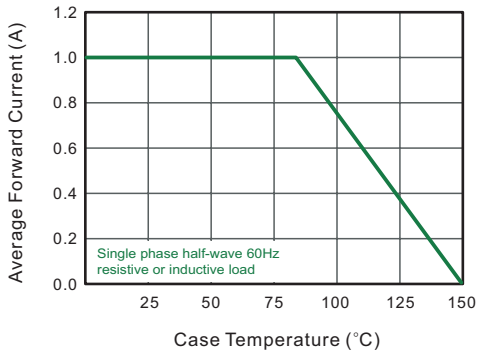


Fig.2 Typical Reverse Characteristics

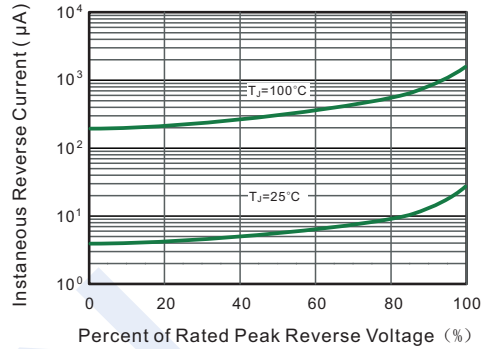


Fig.3 Typical Forward Characteristic

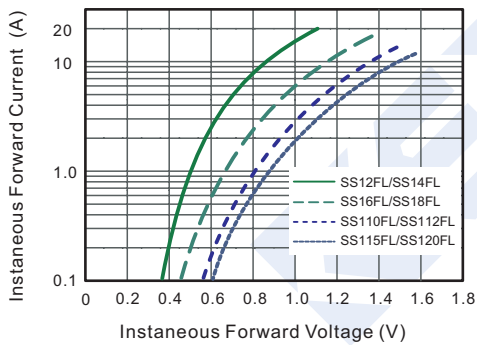


Fig.4 Typical Junction Capacitance

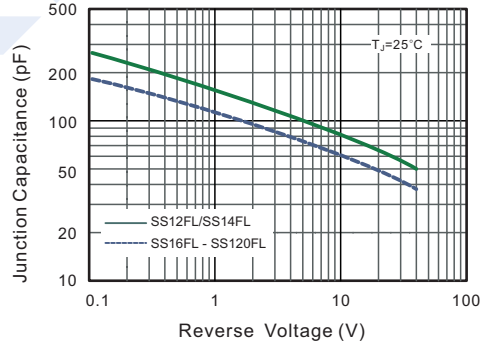


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

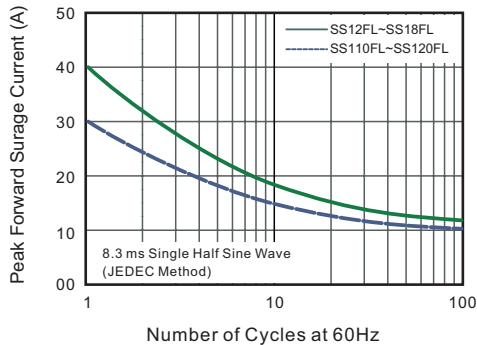
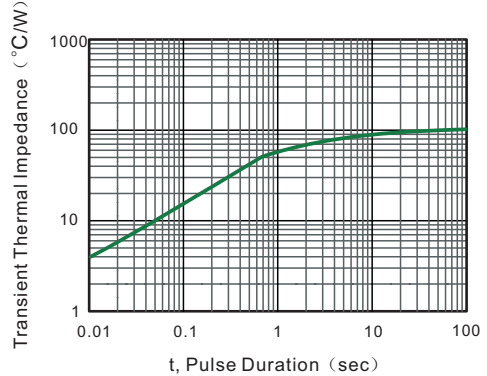


Fig.6 Typical Transient Thermal Impedance

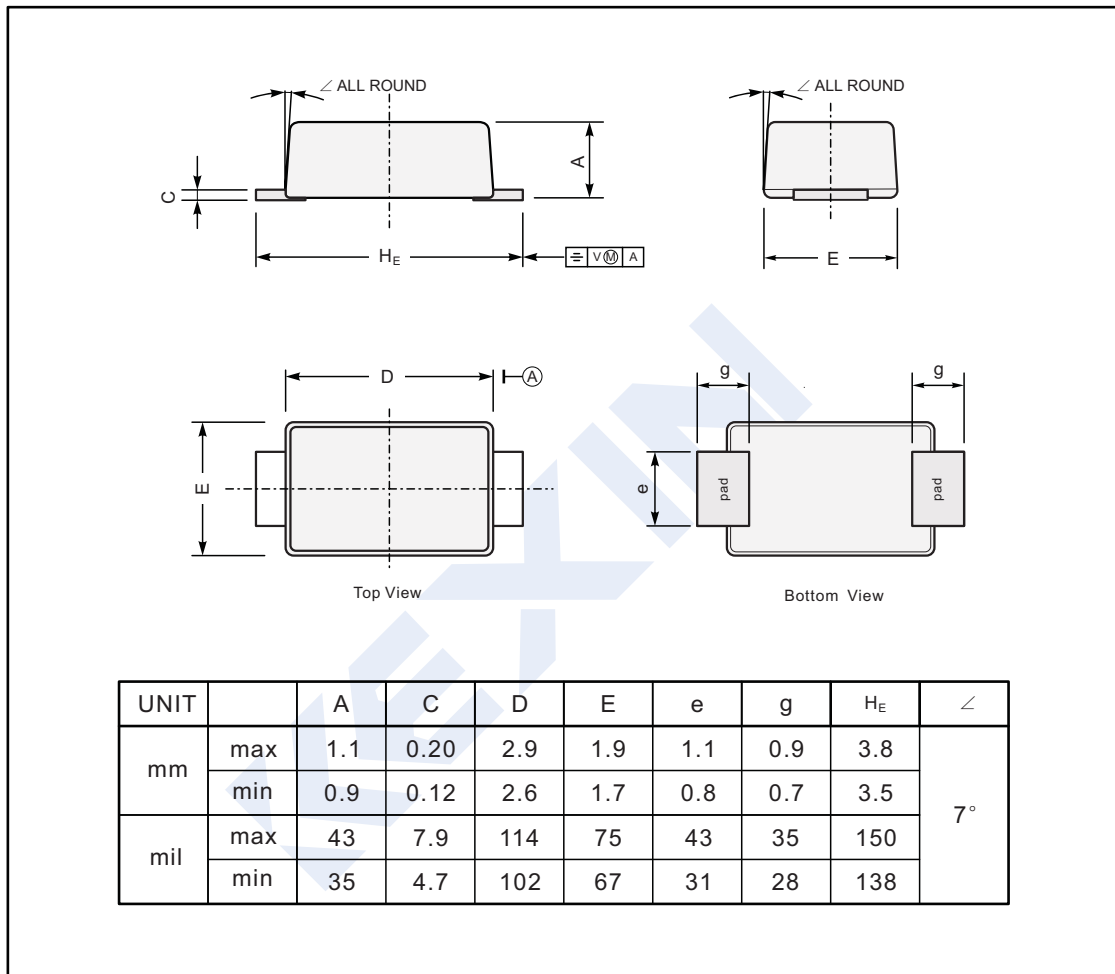


Schottky Diodes SS12FL ~ SS120FL

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123FL



■ The Recommended Mounting Pad Size

