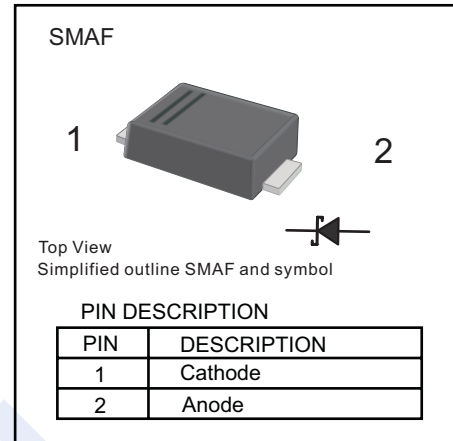


Schottky Barrier Diodes

SS12F ~ SS120F

■ 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 12F	SS 14F	SS 16F	SS 18F	SS 110F	SS 112F	SS 115F	SS 120F	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	
Instantaneous Forward Voltage at 1A	V_F	0.55		0.7		0.85		0.9		
Averaged Forward Current	I_O	1								A
Peak forward surge current	I_{FSM}	40				30				
Maximum DC Reverse Current at rated DC blocking voltage	I_R	$T_A=25^\circ\text{C}$ 0.3		$T_A=100^\circ\text{C}$ 10		0.5 2		0.1 2		mA
Typical Junction Capacitance *1	C_j	110		80						pF
Typical thermal resistance *2	R_{thJA}	95								$^\circ\text{C/W}$
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. Mounted on glass epoxy PC board with $4 \times 1.5'' \times 1.5''$ (3.81×3.81 cm) copper pad.

■ Marking

NO.	SS12F	SS14F	SS16F	SS18F	SS110F	SS112F	SS115F	SS120F
Marking	SS12	SS14	SS16	SS18	SS110	SS112	SS115	SS120

Schottky Barrier Diodes

SS12F ~ SS120F

Typical Characteristics

Fig.1 Forward Current Derating Curve

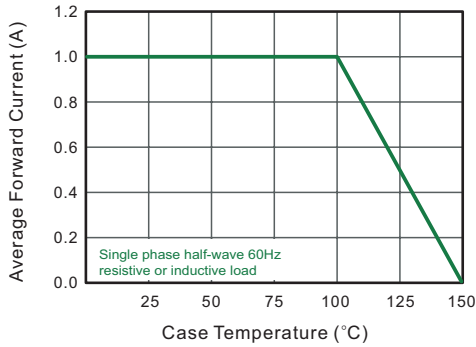


Fig.2 Typical Reverse Characteristics

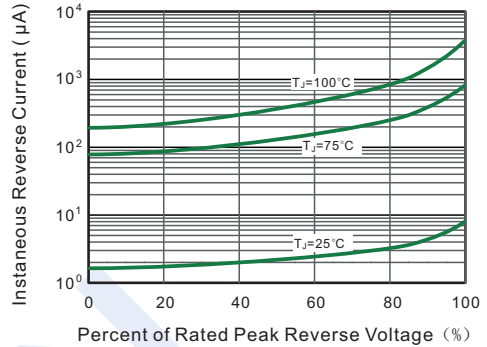


Fig.3 Typical Forward Characteristic

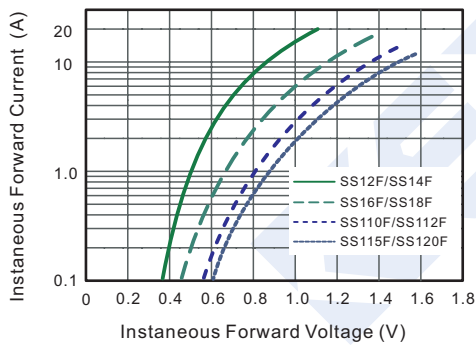


Fig.4 Typical Junction Capacitance

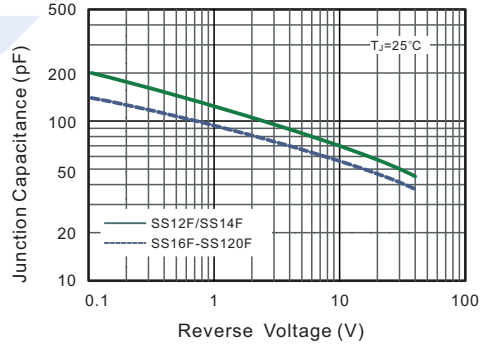


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

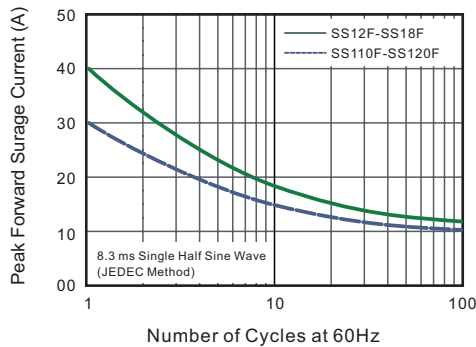
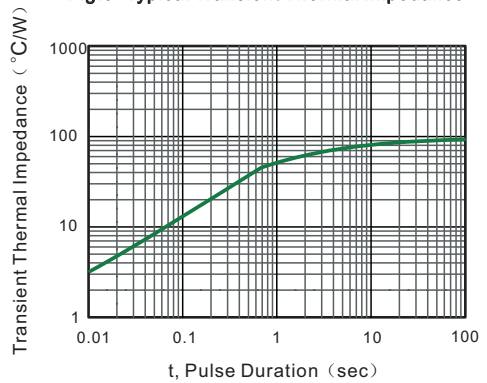


Fig.6- Typical Transient Thermal Impedance



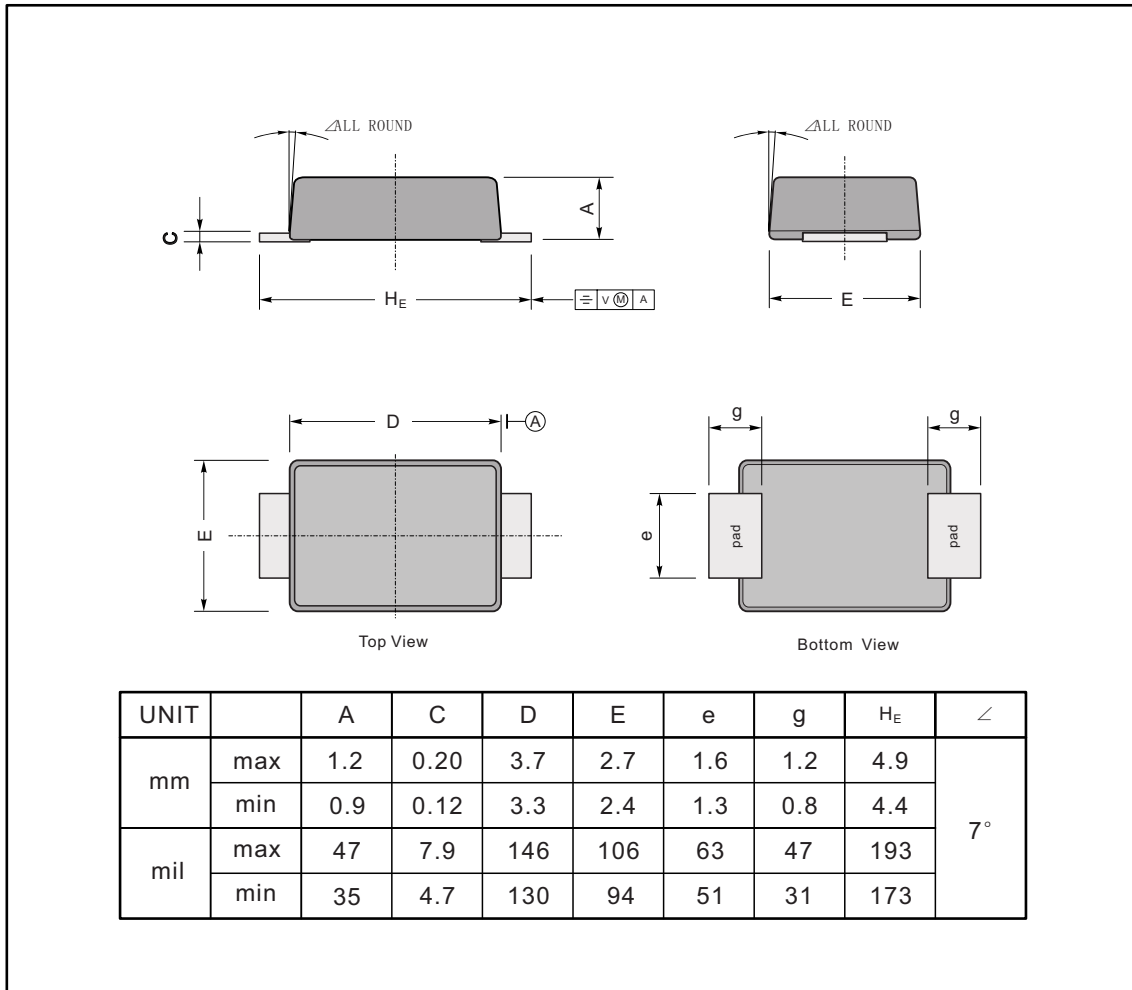
Schottky Barrier Diodes

SS12F ~ SS120F

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMAF



■ The recommended mounting pad size

