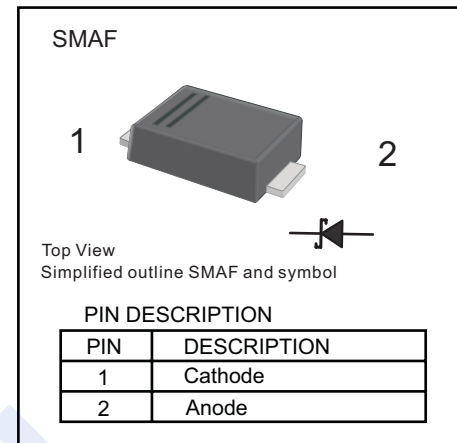


Schottky Barrier Rectifier

SS32F ~ SS320F

■ 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 32F	SS 34F	SS 34AF	SS 36F	SS 38F	SS 310F	SS 312F	SS 315F	SS 320F	Unit		
Repetitive Peak Reverse Voltage	V_{RRM}	20	40	45	60	80	100	120	150	200	V		
Surge Peak Reverse Voltage	V_{RSM}	14	28	31.5	42	56	70	84	105	140			
Maximum DC Blocking Voltage	V_{DC}	20	40	45	60	80	100	120	150	200			
Instantaneous Forward Voltage at 3A	V_F	0.55		0.7			0.85		0.95				
Averaged Forward Current	I_O	3										A	
Peak forward surge current	I_{FSM}	80					70						
Maximum DC Reverse Current at rated DC blocking voltage	I_R	$T_A=25^\circ\text{C}$ 0.5			$T_A=100^\circ\text{C}$ 5			0.3			3		mA
Typical Junction Capacitance *1	C_j	250					180					pF	
Typical thermal resistance *2	R_{thJA}	70										$^\circ\text{C}/\text{W}$	
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.	SS32F	SS34F	SS34AF	SS36F	SS38F	SS310F	SS312F	SS315F	SS320F
Marking	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320

Schottky Barrier Rectifier SS32F ~ SS320F

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

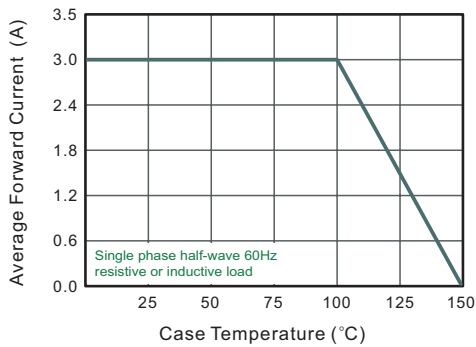


Fig.2 Typical Reverse Characteristics

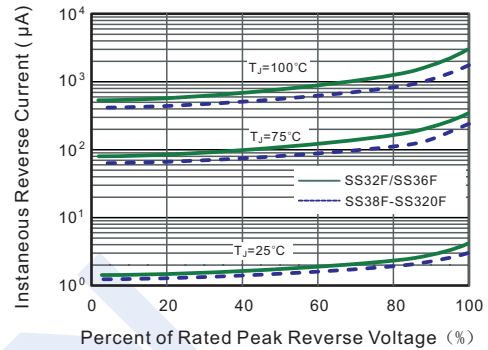


Fig.3 Typical Forward Characteristic

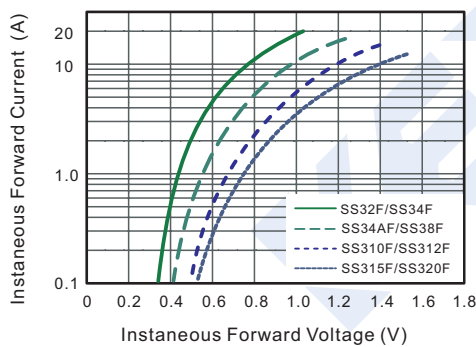


Fig.4 Typical Junction Capacitance

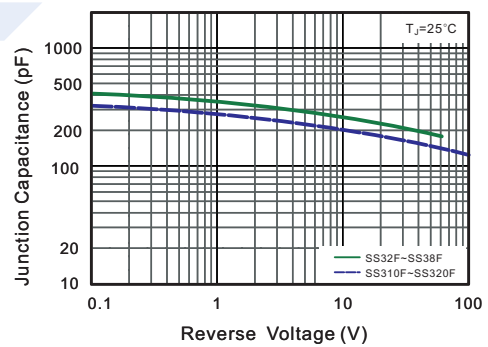


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

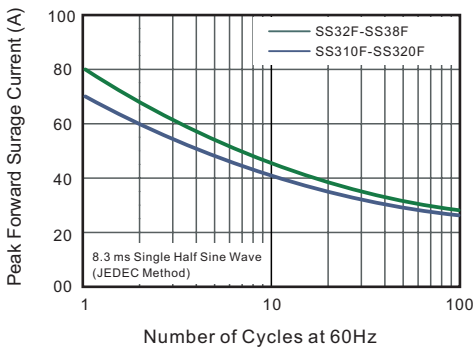
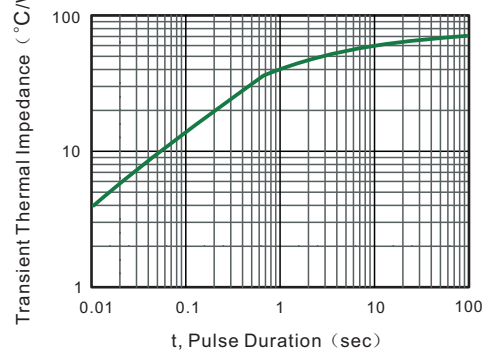


Fig.5- Typical Transient Thermal Impedance

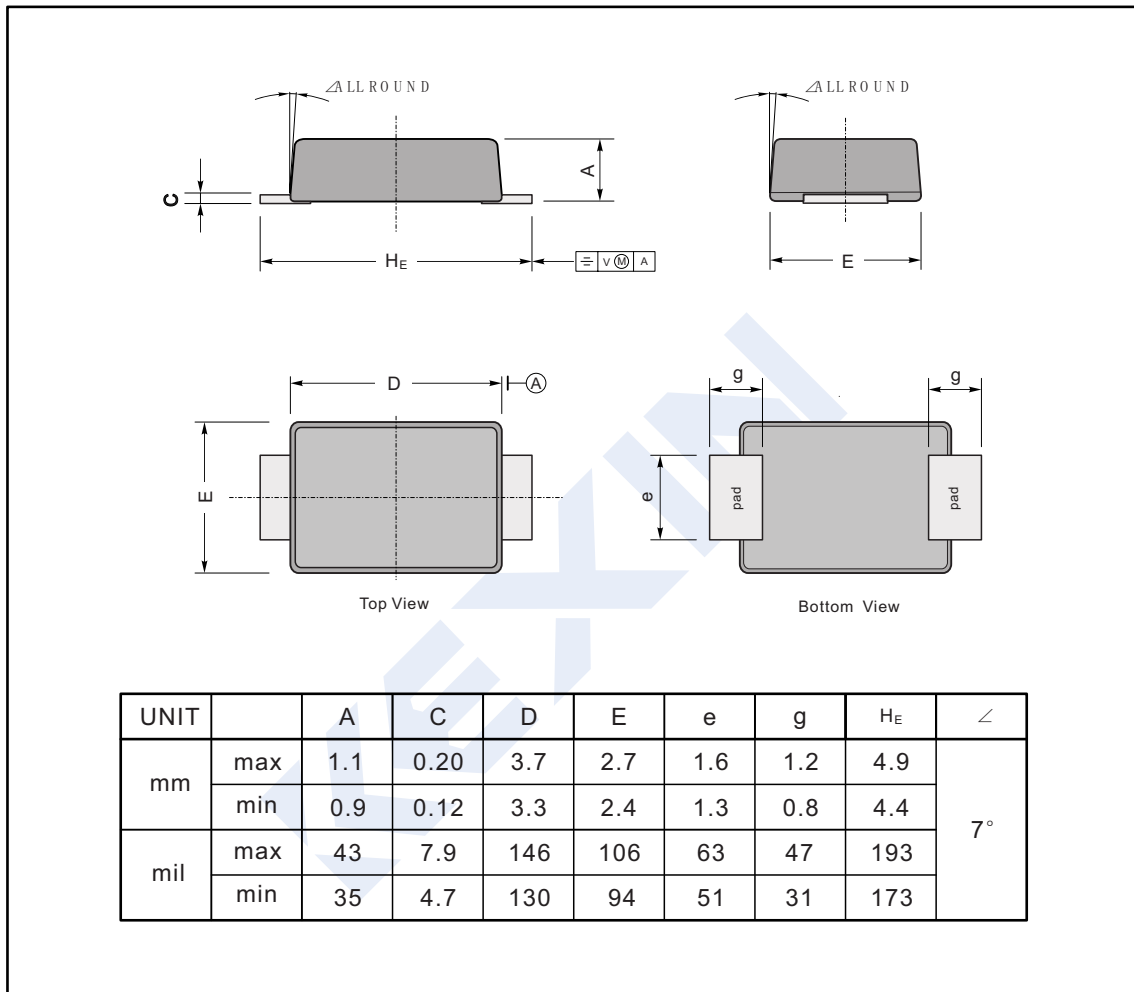


Schottky Diodes SS32F ~ SS320F

■ Package Outline

Plastic surface mounted package; 2 leads

SMAF



■ The recommended mounting pad size

