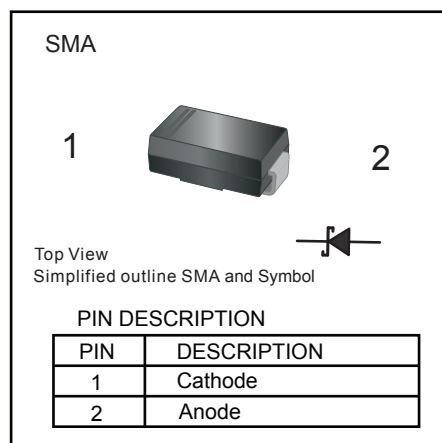


Schottky Barrier Rectifier

SS22 ~ SS220

■ 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

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbol	SS 22	SS 24	SS 26	SS 28	SS 210	SS 212	SS 215	SS 220	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 2A	V_F	0.55		0.7		0.85		0.95		A
Averaged Forward Current	I_O	2								
Peak forward surge current	I_{FSM}	50								
Maximum DC Reverse Current at rated DC blocking voltage	I_R	$T_A=25^\circ\text{C}$ 0.5			$T_A=100^\circ\text{C}$ 0.3					mA
		5			3					
Typical Junction Capacitance *1	C_j	220			80					pF
Typical thermal resistance *2	R_{thJA}	80								$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	125								$^\circ\text{C}$
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.	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220
Marking	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220

Schottky Barrier Rectifier

SS22 ~ SS220

Typical Characteristics

Fig.1 Forward Current Derating Curve

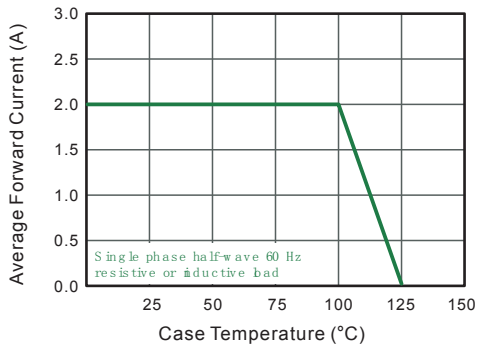


Fig.2 Typical Reverse Characteristics

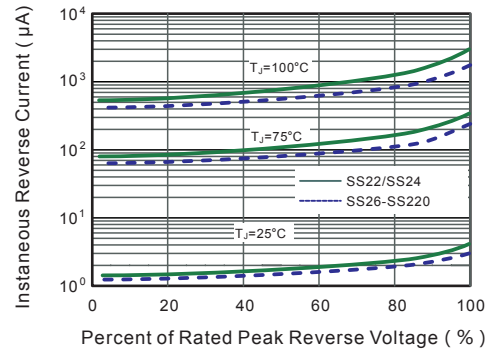


Fig.3 Typical Forward Characteristic

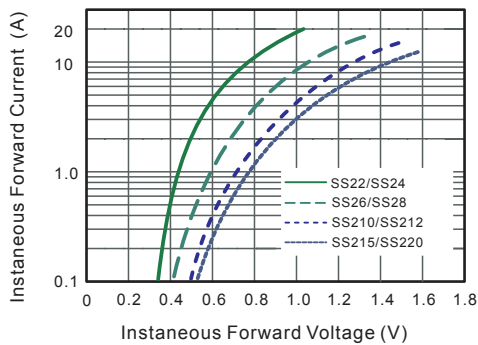


Fig.4 Typical Junction Capacitance

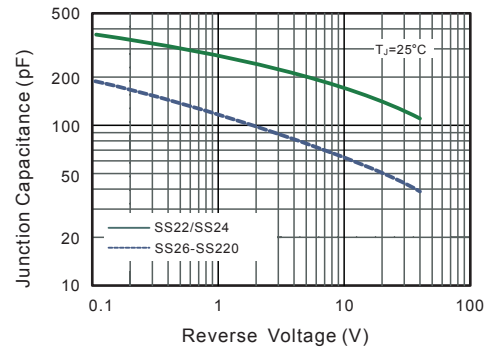


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

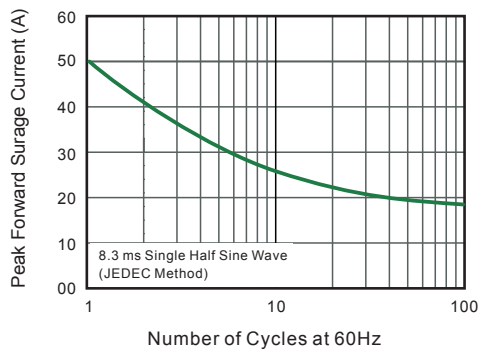
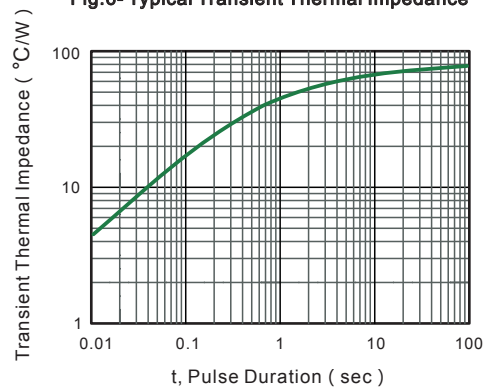


Fig.6- Typical Transient Thermal Impedance



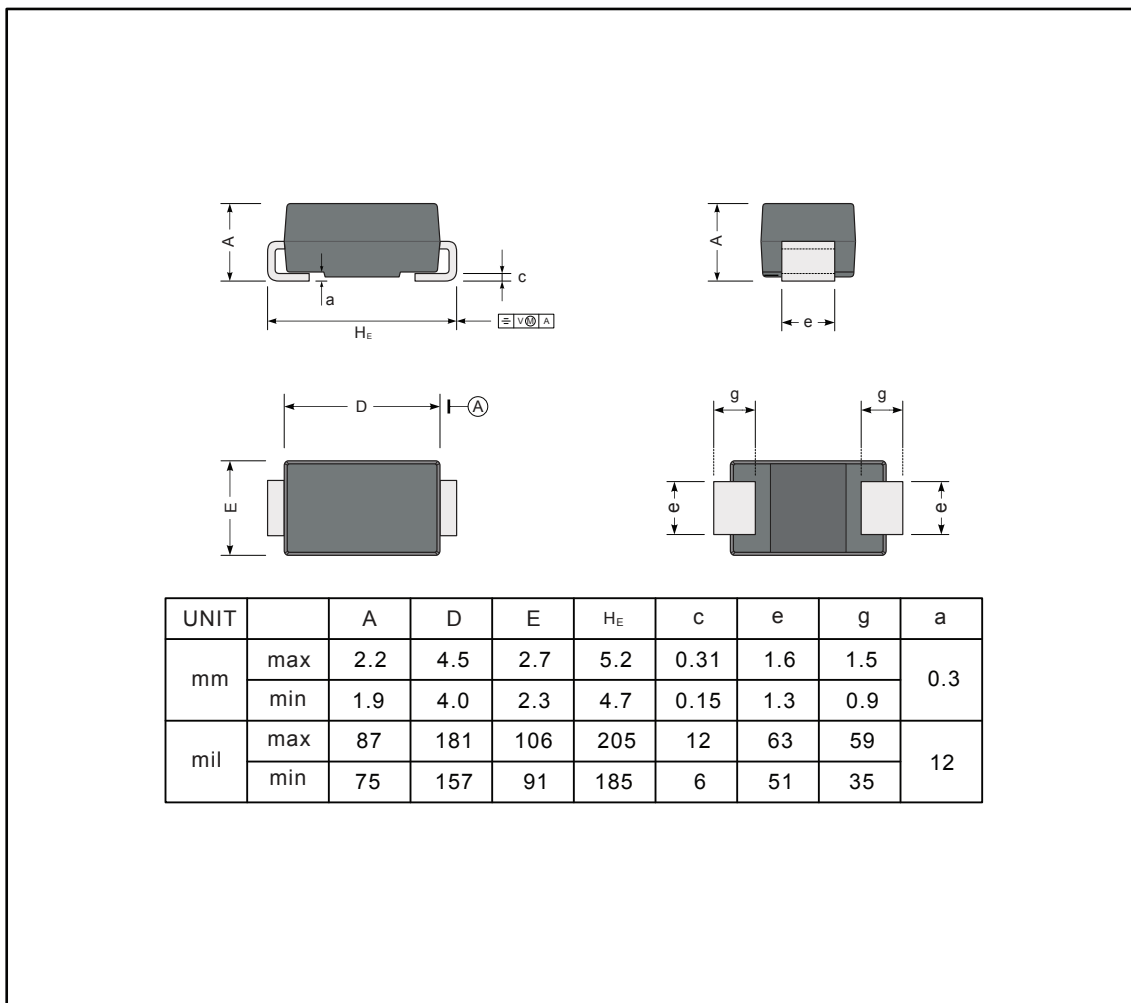
Schottky Barrier Rectifier

SS22 ~ SS220

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMA



■ The recommended mounting pad size

