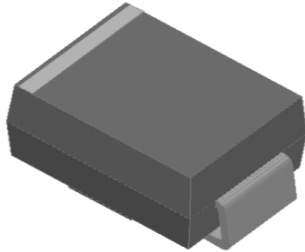


**Surface Mount Schottky Barrier Rectifier**  
**Reverse Voltage - 20 to 200 V**  
**Forward Current - 3.0A**



### 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

### MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 60mg / 0.0021oz

### Absolute Maximum Ratings and Electrical characteristics

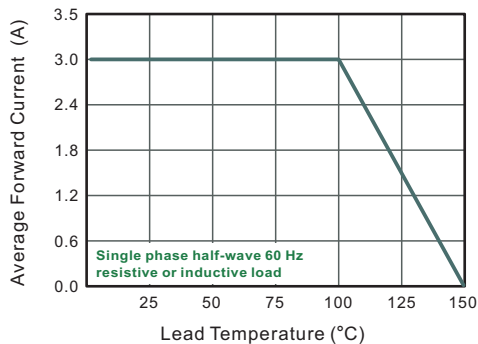
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS32A	SS34A	SS36A	SS310A	SS315A	SS320A	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	80						A
Max Instantaneous Forward Voltage at 3A	$V_F$	0.55		0.70	0.85		0.95	V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$	$I_R$		0.5 5			0.1 3		mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$		450			400		pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	70						°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150						°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150						°C

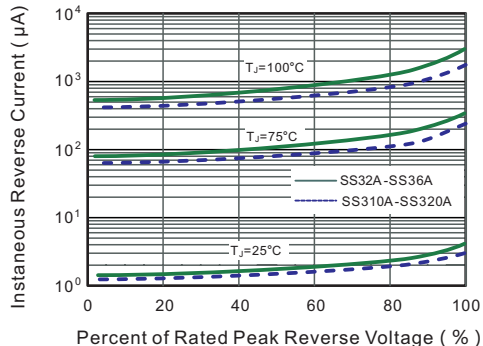
( 1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

( 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

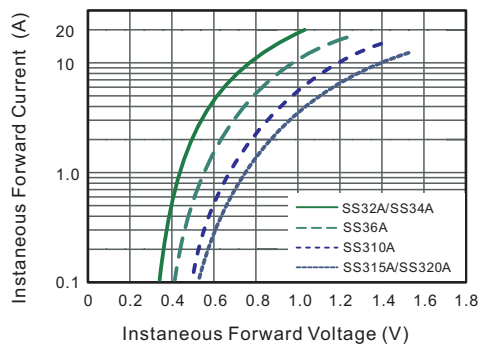
**Fig.1 Forward Current Derating Curve**



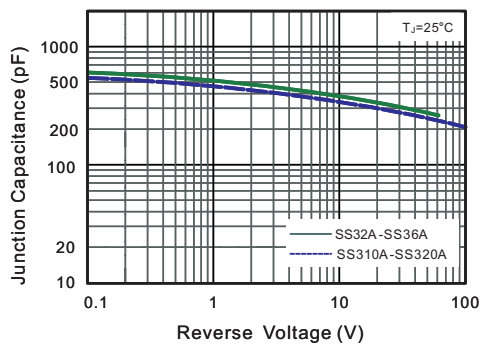
**Fig.2 Typical Reverse Characteristics**



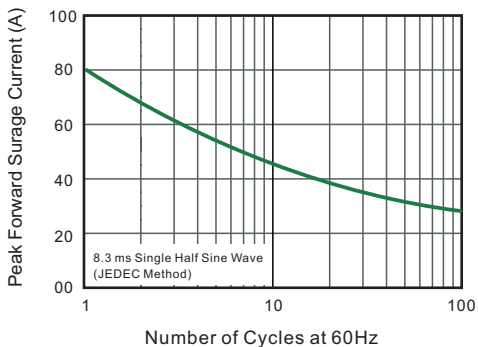
**Fig.3 Typical Forward Characteristic**



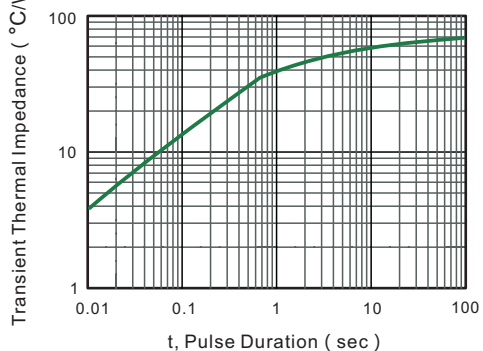
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



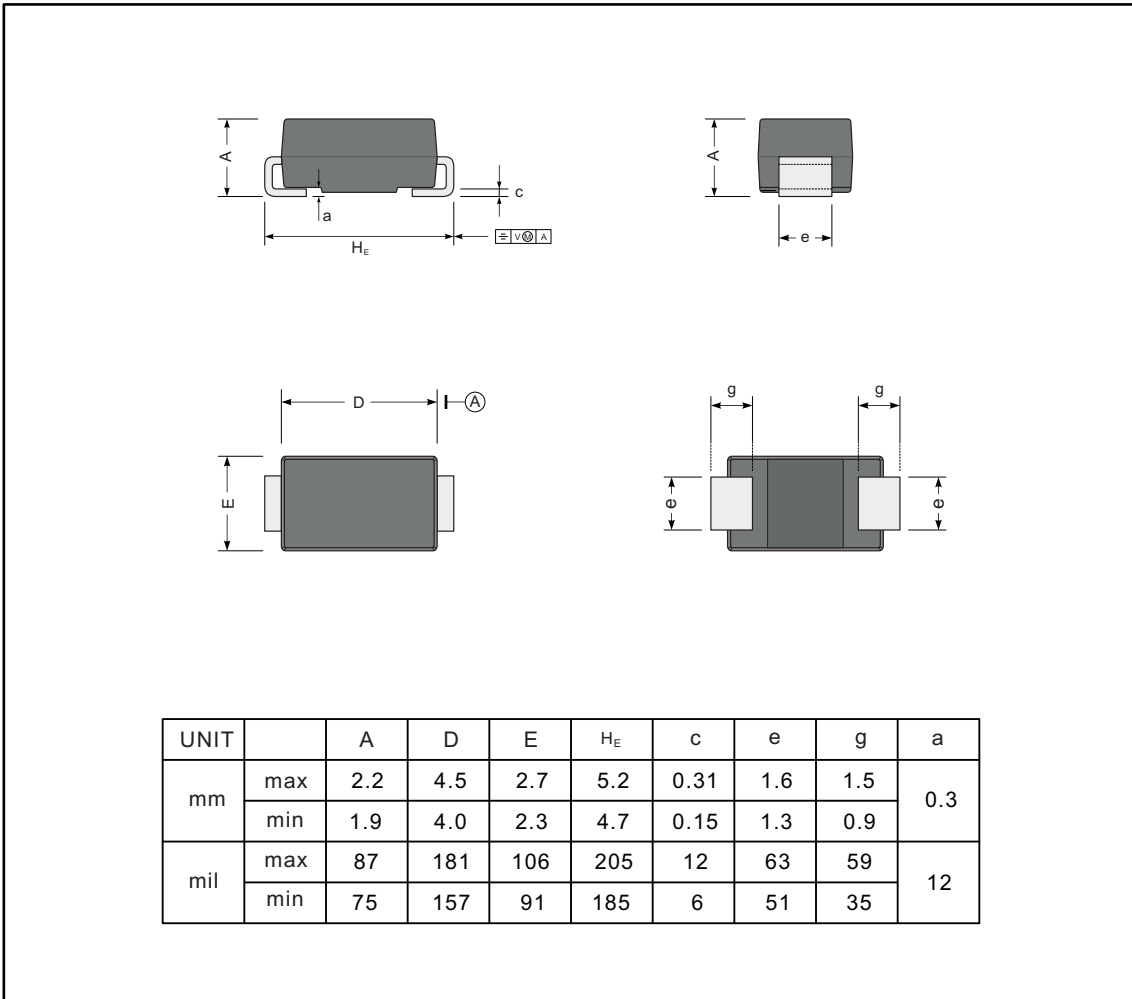
**Fig.5- Typical Transient Thermal Impedance**



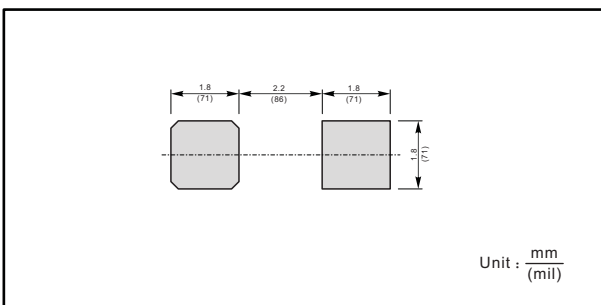
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SMA(DO-214AC)**



**The recommended mounting pad size**



**Marking**

Type number	Marking code
SS32A	SS32
SS34A	SS34
SS36A	SS36
SS310A	SS310
SS315A	SS315
SS320A	SS320