

## SCHOTTKY DIODES

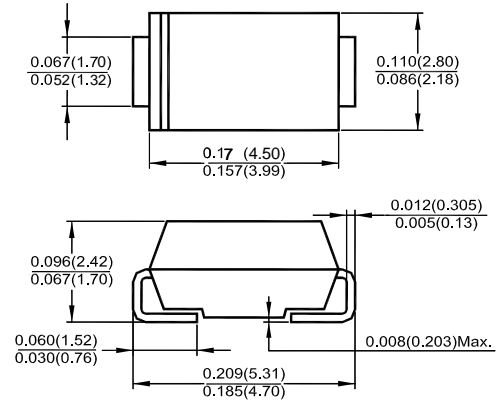
### FEATURES

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability, low forward voltage drop

### MECHANICAL DATA

- SMA (DO-214AC) molded plastic body
- leads solderable per MIL-STD-750, Method 2026
- color band denotes cathode end

### SS32---SS310



Dimensions in inches and (millimeters)  
DO-214AC (SMA)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

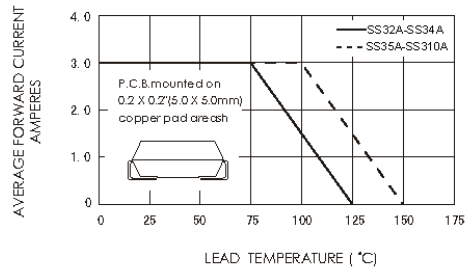
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Paramete	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS310	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I <sub>(AV)</sub>	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>	80							A
Maximum Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	0.55			0.75				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.2							mA
T <sub>A</sub> = 25 °C T <sub>A</sub> = 100 °C		20			10				
Typical Thermal Resistance <sup>1)</sup>	R <sub>JA</sub>	88							°C/W
	R <sub>JL</sub>	28							
Operating Junction Temperature Range	T <sub>j</sub>	- 65 to + 125			- 65 to + 150				°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150							°C

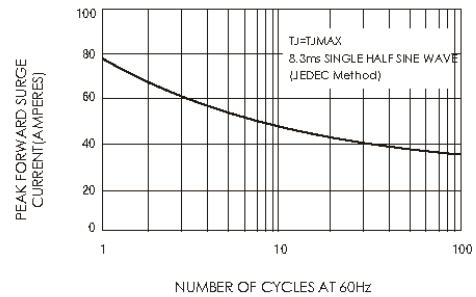
1)P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

## SS32---SS310 Typical Characteristics

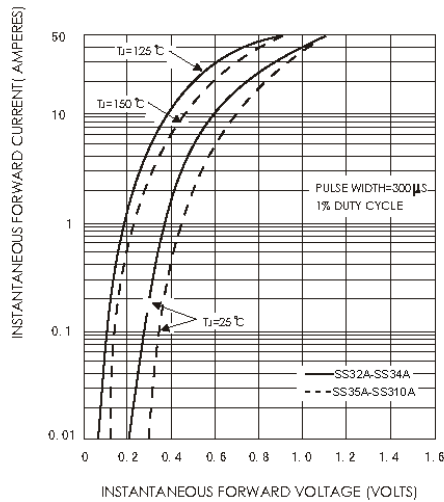
FORWARD CURRENT DERATING CURVE



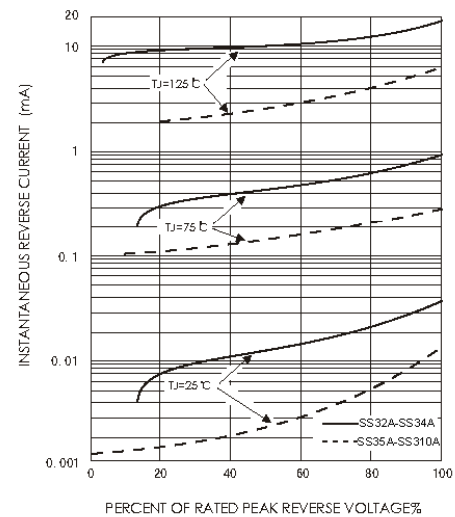
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



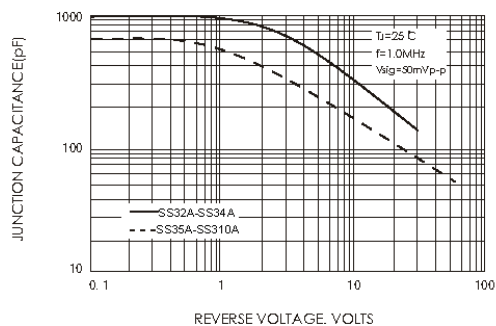
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE

