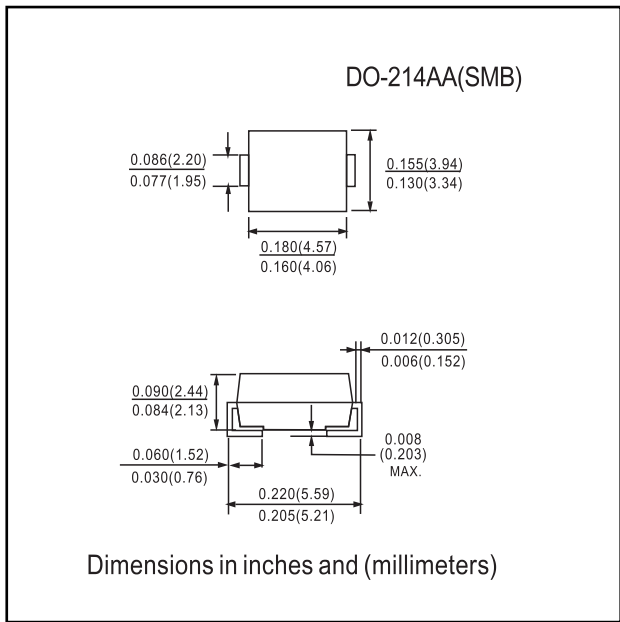




**FEATURES**

- ◆ For surface mounted applications  
Metal-Semiconductor junction with guarding
- ◆ Epitaxial construction
- ◆ Very low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0
- ◆ For use in lowvoltage, high frequency inverters, free wheeling, and polarity protection applications.



**MECHANICAL DATA**

Case Molded Plastic  
Polarity:Color band denotes cathode  
Weight: 0.003 ounces,0.093 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

CHARACTERISTICS	SYMBOL	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS310B	UNIT
Maximum Recurrent 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 @T <sub>L</sub> =100 °C	I <sub>(AV)</sub>	3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>	80							A
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>	0.45	0.55	0.6	0.7		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	1.0 20							mA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	250							pF
Typical Thermal Resistance (Note2)	R <sub>JL</sub>	10							°C/W
Typical Thermal Resistance (Note3)	R <sub>JA</sub>	50							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.  
2.Thermal resistance junction to lead.  
3.Thermal resistance junction to ambient.



RATINGS AND CHARACTERISTIC CURVES

SS32B THRU SS310B

FIG. 1 - FORWARD CURRENT DERATING CURVE

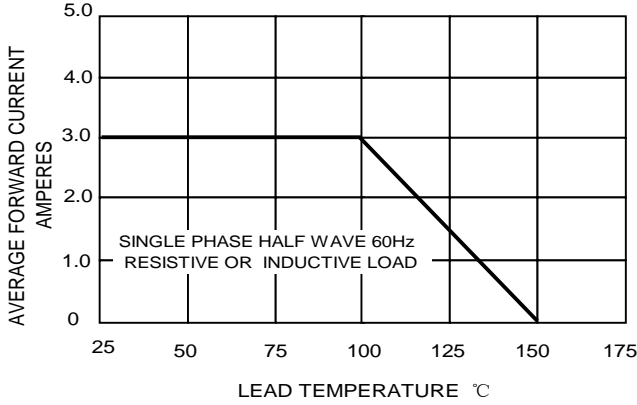


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

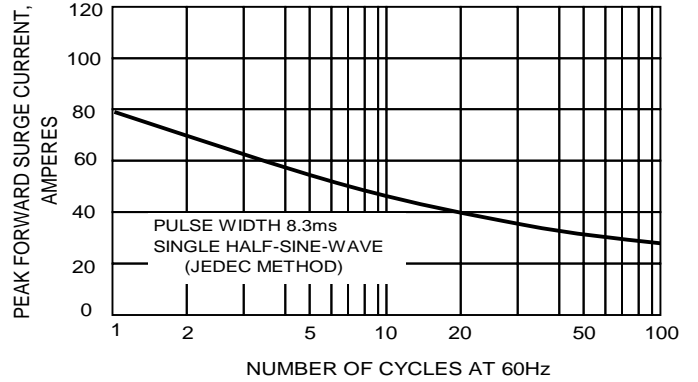


FIG.3-TYPICAL FORWARD CHARACTERISTICS

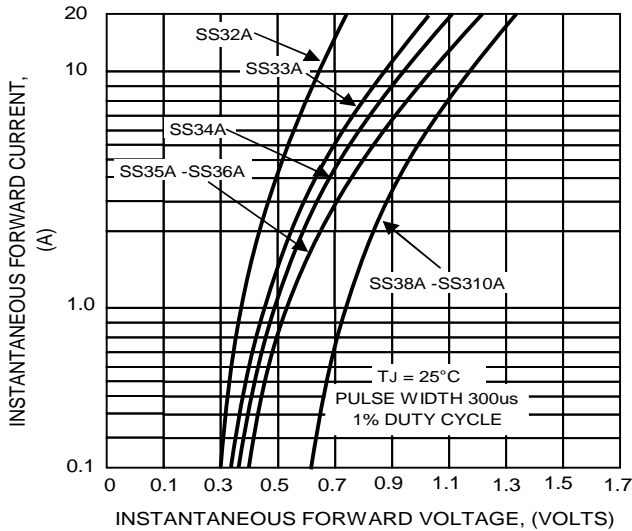


FIG.4-TYPICAL JUNCTION CAPACITANCE

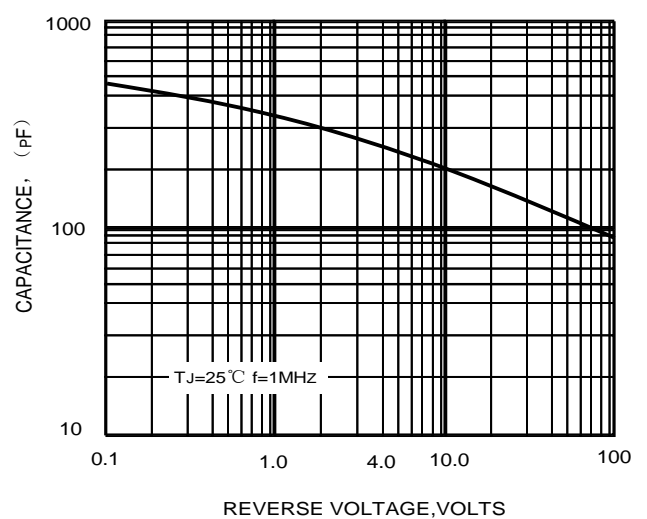


FIG.5-TYPICAL REVERSE CHARACTERISTICS

