

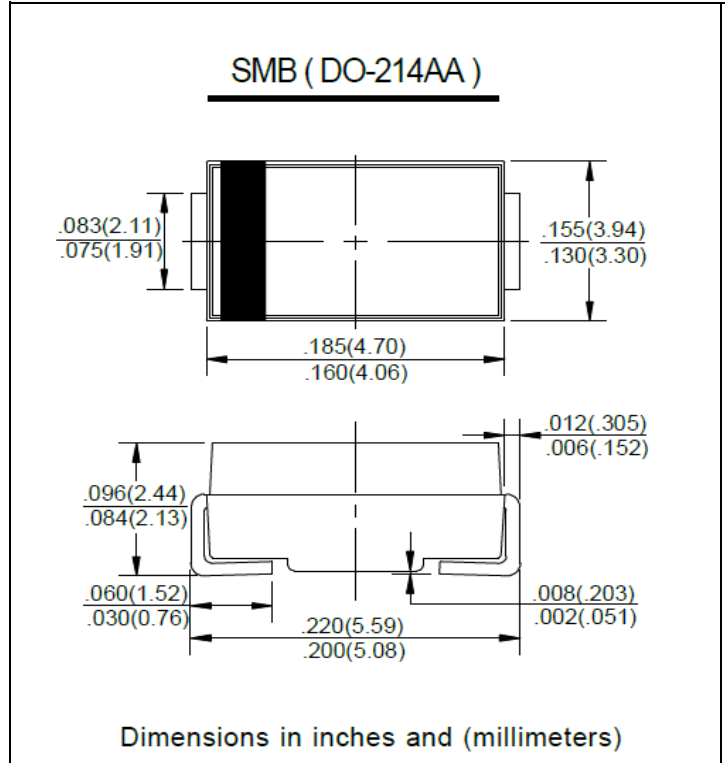


**FEATURES**

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- For sue in low voltage,high frequency inverters free wheeling,and polarity protection applications
- The plastic material carries U/L recognition 94V-O

**MECHANICAL DATA**

- Case: JEDEC DO - 214Ab. molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.009 ounce.0.25 grams



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

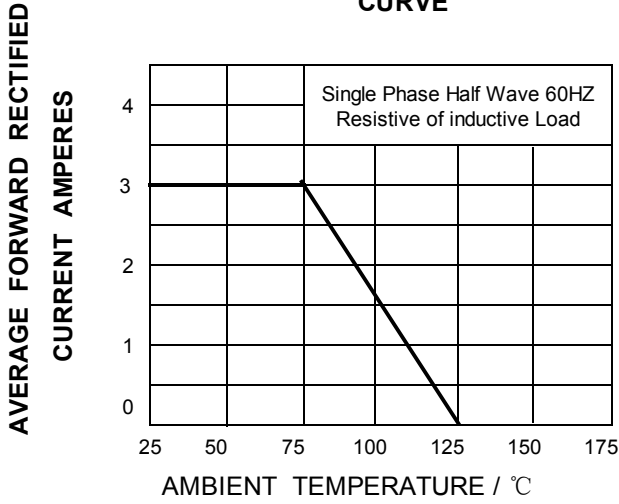
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

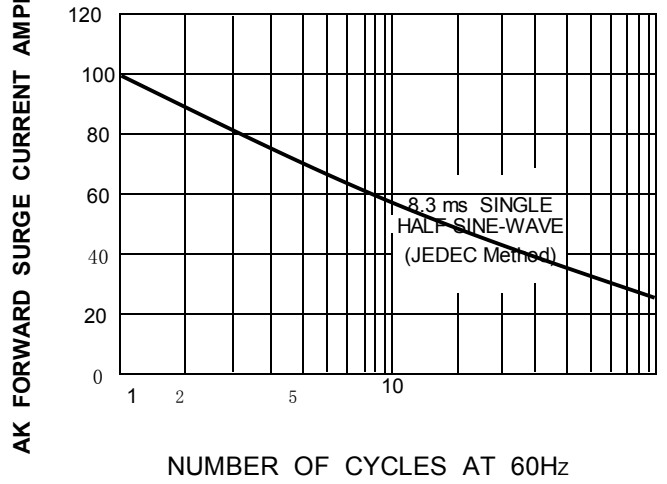
	SYMBOL	SS32	SS33	SS34	SS35	SS36	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T <sub>L</sub> = 100°C	I <sub>(AV)</sub>	3.0					A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	100					A
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>	0.5			0.7		V
Maximum Reverse Current T <sub>j</sub> = 25°C at Rated DC Blocking Voltage T <sub>j</sub> = 100°C	I <sub>R</sub>	0.5					mA
Typical Junction Capacitance ( Note 1)	C <sub>j</sub>	250					pF
Typical Thermal Resistance ( Note 2,	R <sub>QJL</sub>	10					°C/W
	R <sub>QJA</sub>	50					
Operating Junction Temperature Range	T <sub>j</sub>	-55 to 125					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 150					°C

- NOTE:
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.
  2. Thermal Resistance Junction to Lead.
  3. Thermal Resistance Junction to Ambient.

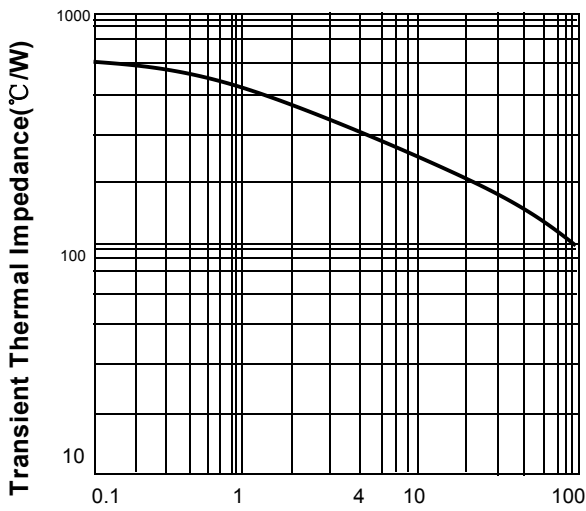
**FIG. 1 -- FORWARD CURRENT DERATING CURVE**



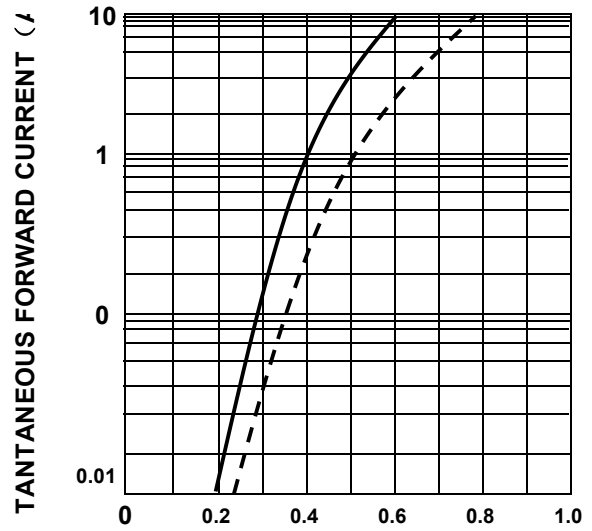
**2 -- MAXIMUM NON-REPETITIVE SURGE**



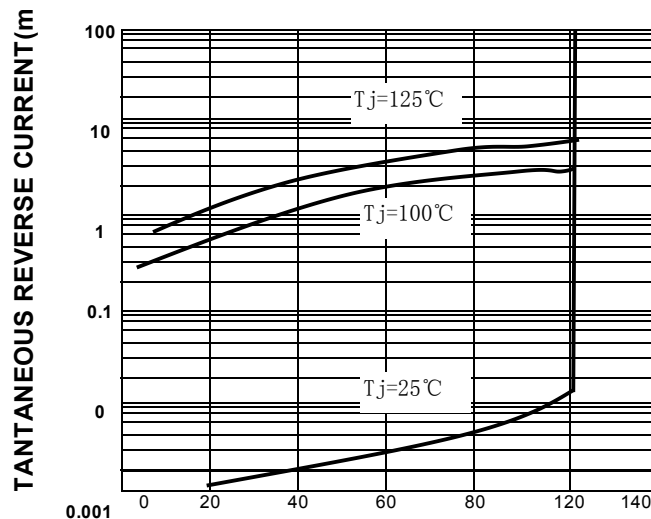
**Fig.3-TYPICAL JUNCTION CAPACITANCE**



**g.4-TYPICAL FORWARD CHARACTERISTIC**



**Fig.5-TYPICAL REVERSE CHARACTERISTICS**



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