



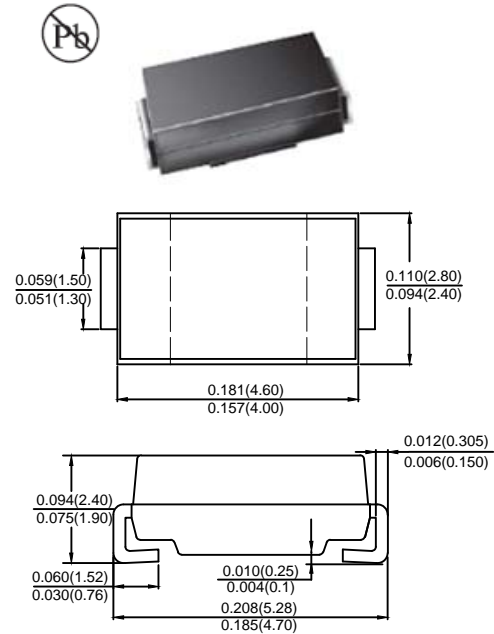
**Features**

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:  
260°C/10 seconds at terminals
- Component in accordance to  
RoHS 2002/95/1 and WEEE 2002/96/EC

**Mechanical Data**

- **Case:** JEDEC DO-214AC (SMA) molded plastic
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

**SMA/DO-214AC**



Dimensions in inches and (millimeters)

**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%

Type Number	SYMBOL	SS 22	SS 24	SS 26	SS 28	SS 210	SS 2150	SS 2200	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	150	200	V
Average Rectified Output Current @T <sub>J</sub> =100°C	I <sub>o</sub>	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50							A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	10.37							A <sup>2</sup> s
Forward Voltage @IF=2.0A	V <sub>FM</sub>	0.55	0.7	0.85	0.92	0.95			V
Peak Reverse Current @T <sub>A</sub> =25°C	I <sub>R</sub>	0.1			0.05			mA	
At Rated DC Blocking Voltage @T <sub>A</sub> =100°C		10			5				
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	150							pF
Typical Thermal Resistance per leg	R <sub>θJLA</sub>	72							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C





**Characteristic Curves** ( $T_A=25\text{ }^\circ\text{C}$  unless otherwise noted)

Fig. 1 Forward Current Derating Curve

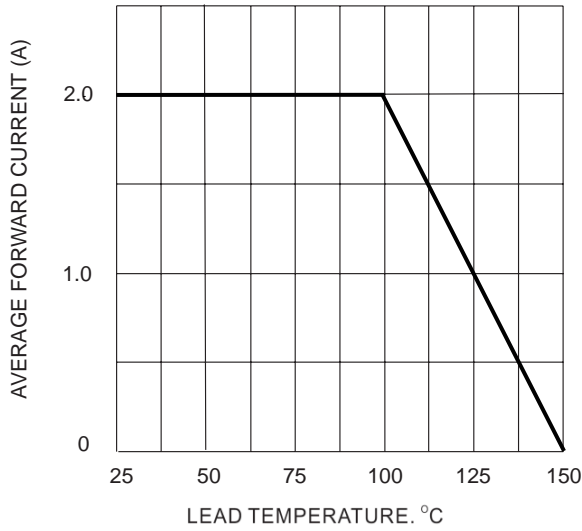


Fig. 2 Typ. Forward Characteristics

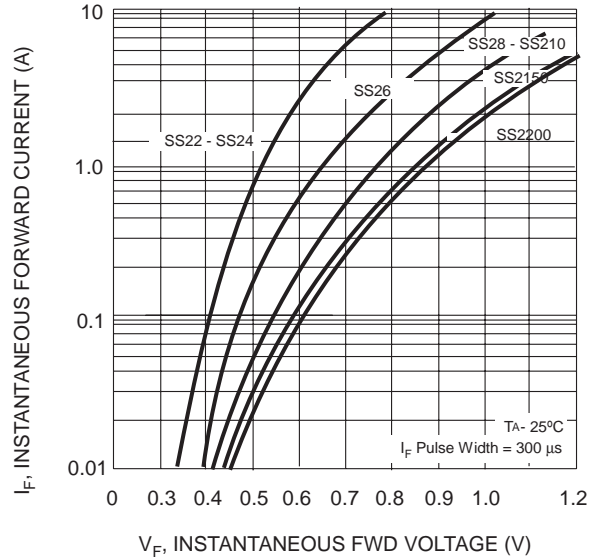


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

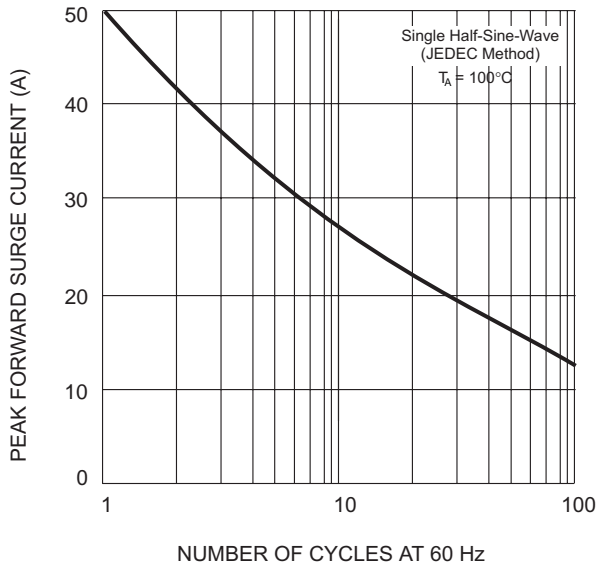
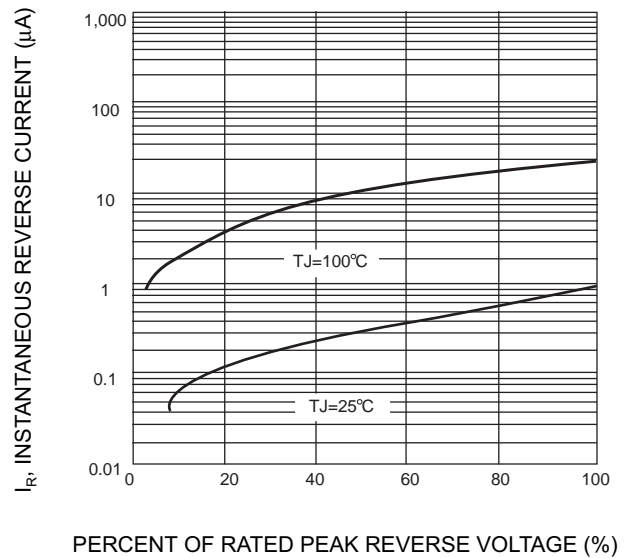
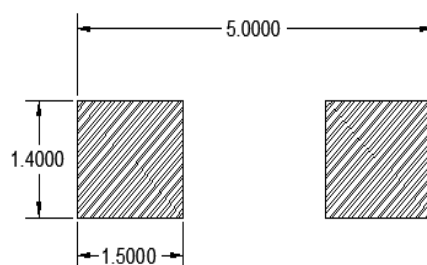


Fig. 4 Typical Reverse Characteristics (per element)



**SMA PAD LAYOUT**



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