

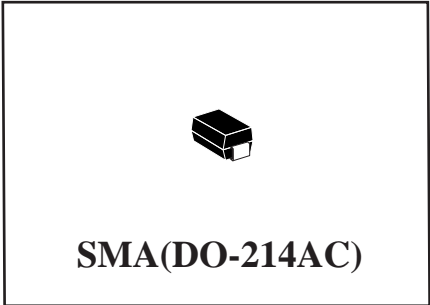
### Surface Mount Standard Recovery Glass Passivated

**(Pb)** Lead(Pb)-Free

#### Features:

- \*For Surface Mount Application
- \*Glass Passivated Chip
- \*Low Reverse Leakage Current
- \*Low Forward Voltage Drop And High Current Capability
- \*Plastic Material Has UL Flammability Classification 94V-0

**REVERSE VOLTAGE**  
50 TO 1000 VOLTS  
**FORWARD CURRENT**  
1.0 AMPERE

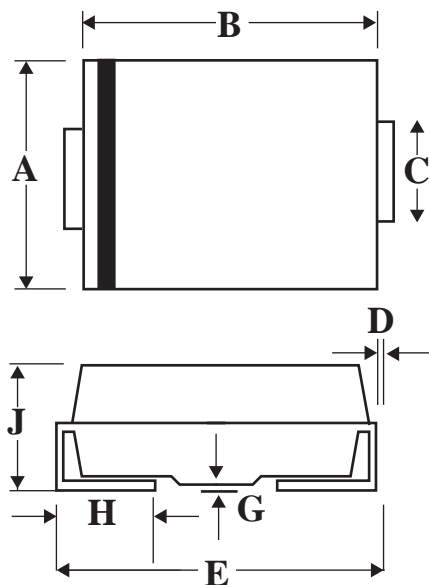


#### Mechanical Data

- \*Case : Molded Plastic
- \*Polarity :Indicated by cathode band
- \*Weight : 0.002 Ounce ,0.064 grams

### SMA Outline Dimension

Unit:mm



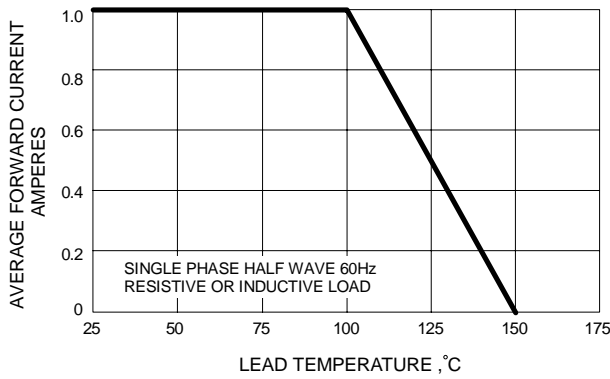
SMA		
Dim	Min	Max
<b>A</b>	2.20	2.92
<b>B</b>	4.00	4.60
<b>C</b>	1.27	1.63
<b>D</b>	0.15	0.31
<b>E</b>	4.48	5.59
<b>G</b>	0.10	0.20
<b>H</b>	0.76	1.52
<b>J</b>	1.70	2.62

## Maximum Ratings and Electrical Characteristics

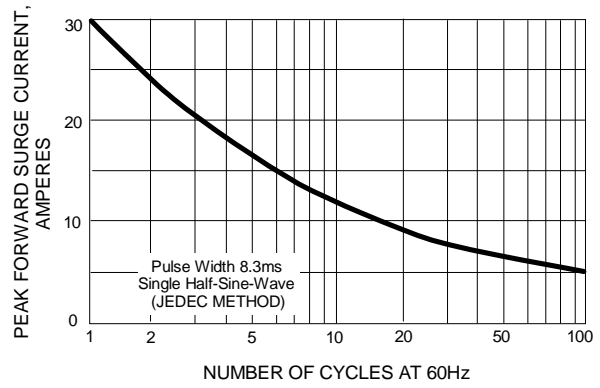
Rating 25°C Ambient Temperature Unless Otherwise Specified.  
 Single Phase Half Wave, 60Hz , Resistive or Inductive Load.  
 For Capacitive Load, Derate Current by 20%.

Characteristics	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TC=100°C	IF(AV)	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30							A
Maximum Instantaneous At 1.0A DC	VF	1.10							V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C	IR	5.0 100							uA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	10							PF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	30							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to+150							°C
Storage Temperature Range	TSTG	-55 to+150							°C

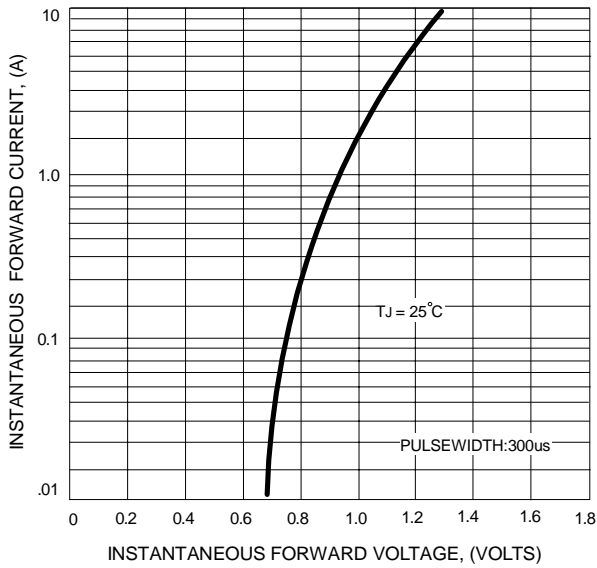
NOTES: 1.Measured at 1.0MHz applied reverse voltage of 4.0V DC.  
 2.Thermal Resistance Junction to case.



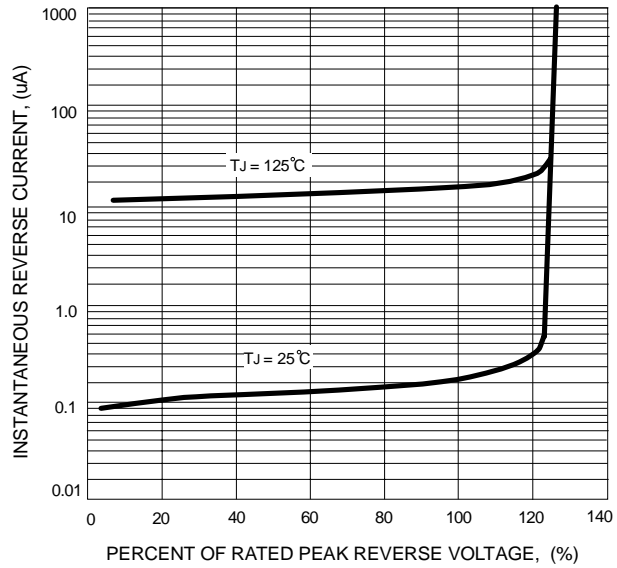
**FIG.1 Forward Current Derating Curve**



**FIG.2 Maximum Non-Petitive Surge Current**



**FIG.3 Typical Forward Characteristics**



**FIG.4 Typical Reverse Characteristics**