WEITRON

S1A thru S1M

Surface Mount Standard Recovery Glass Passivated

REVERSE VOLTAGE
50 TO 1000 VOLTS
FORWARD CURRENT
1.0 AMPERE

Features:

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

SMA(DO-214AC)

Mechanical Data

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

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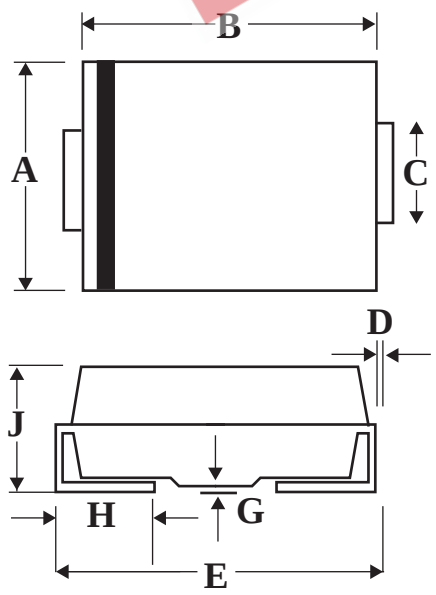
SMA Outline Dimension

Unit:mm



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

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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_J	10							PF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	30							°C/W
Operating Temperature Range	T_J	-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.

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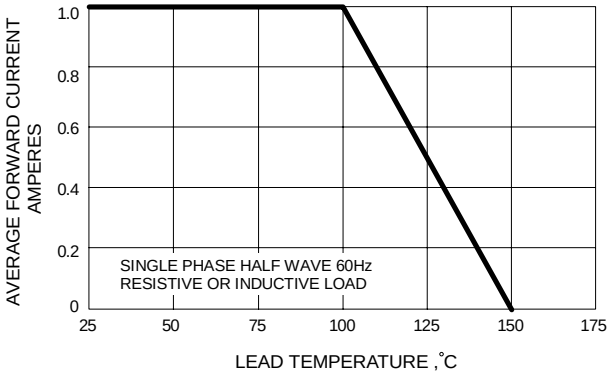

FIG.1 Forward Current Derating Curve

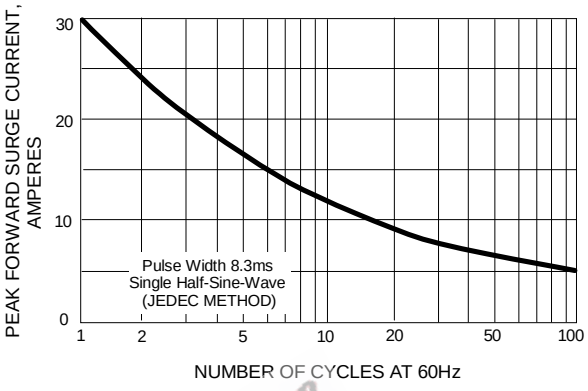

FIG.2 Maximum Non-Pepetitive Surge Current

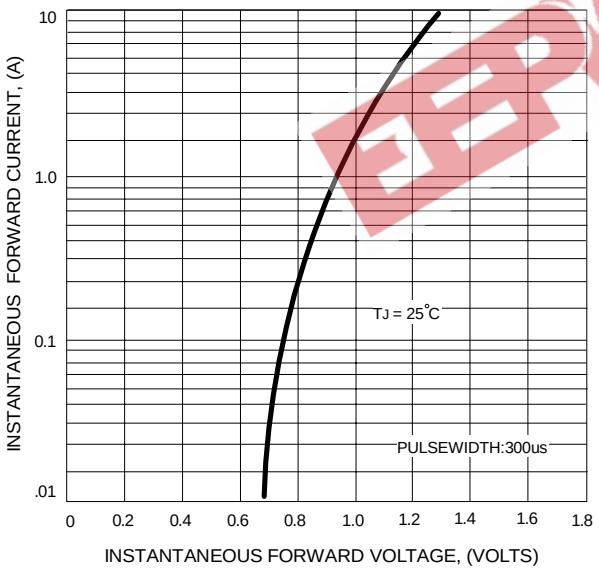

FIG.3 Typcial Forward Characteristics

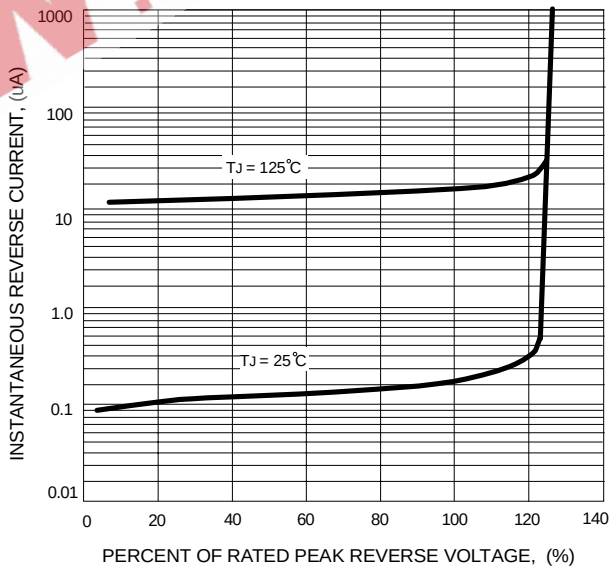

FIG.4 Typical Reverse Characteristics