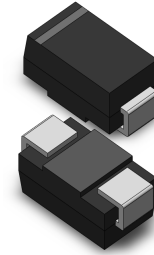


**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 1.0 A**

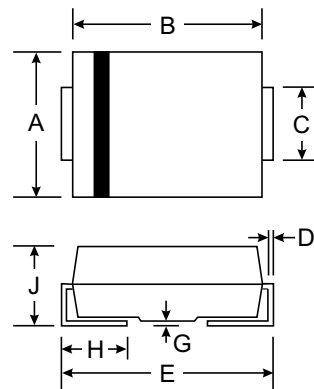
### Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Super fast recovery time



### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

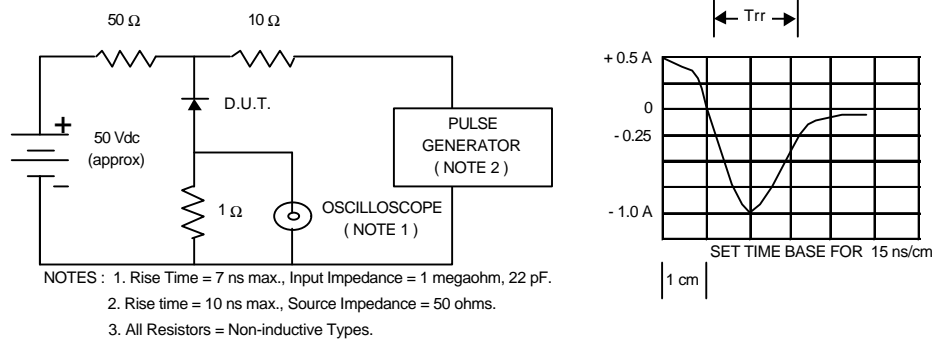
Characteristic	Symbol	SS1A	SS1B	SS1C	SS1D	SS1E	SS1G	SS1J	SS1K	SS1M	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	800	1000	Volts
Maximum Average Forward Current <small>T<sub>a</sub> = 55 °C</small>	I <sub>F(AV)</sub>	1.0									Amp.
Peak Forward Surge Current 8.3 ms. Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30									Amps.
Maximum Peak Forward Voltage at I <sub>F</sub> = 1.0 Amp.	V <sub>F</sub>	0.95			1.4		1.7			Volts	
Maximum DC Reverse Current <small>T<sub>a</sub> = 25 °C</small> at Rated DC Blocking Voltage <small>T<sub>a</sub> = 100 °C</small>	I <sub>R</sub>	5									μA
	I <sub>R(H)</sub>	50									μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	35									ns
Typical Junction Capacitance ( Note 2 )	C <sub>J</sub>	50									pf
Junction Temperature Range	T <sub>J</sub>	- 65 to + 150									°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150									°C

### Notes :

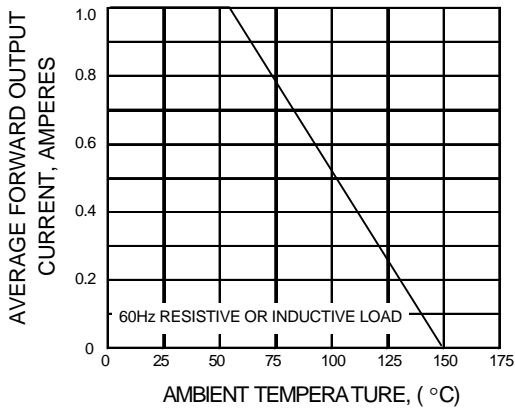
- ( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.
- ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc

## RATING AND CHARACTERISTIC CURVES ( SS1A - SS1M )

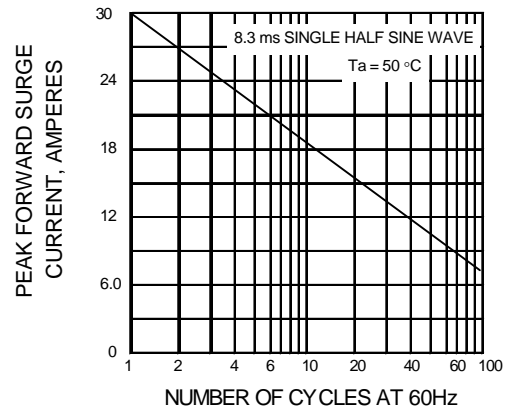
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



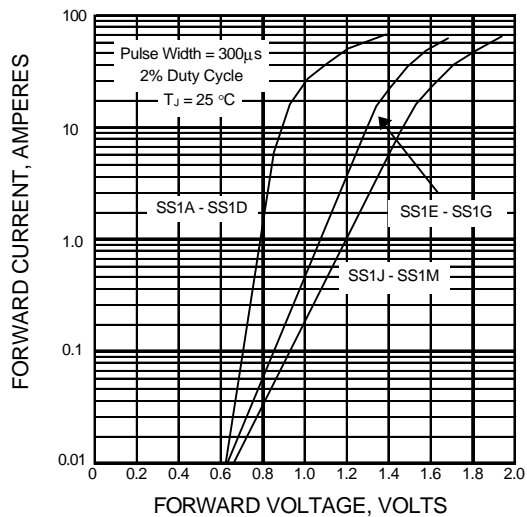
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

