



## Surface Mount Fast Recovery Rectifiers

Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

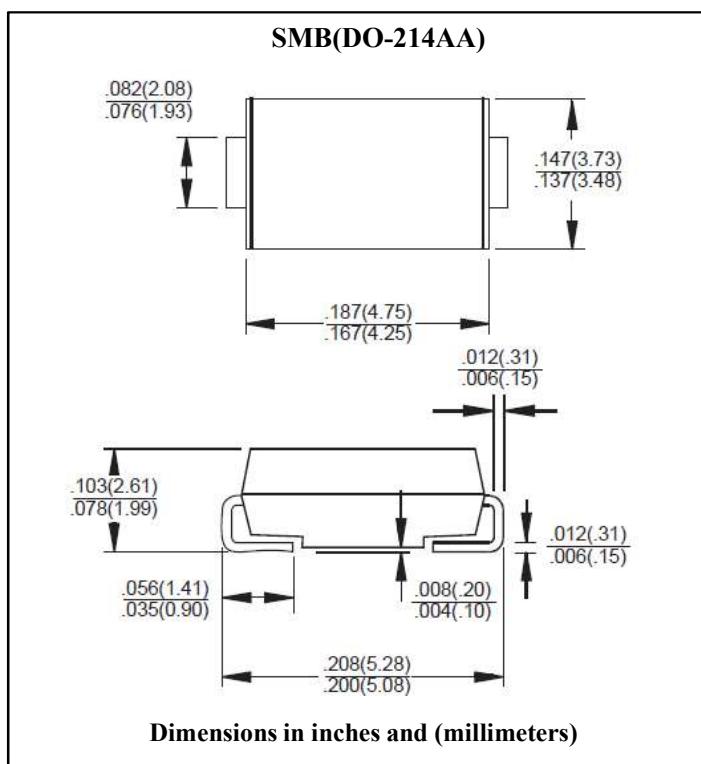
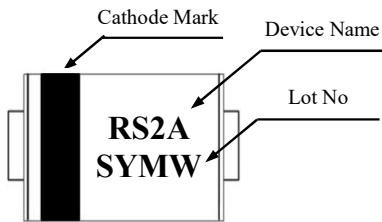
### Features

- For surface mounted application
- Glass passivated junction chip
- Fast reverse recovery time
- Fast switching for high efficiency
- High current capability
- High temperature soldering: 260°C/10 seconds at terminals

### Mechanical Data

- Case : Molded plastic
- Terminals : Solderable plated
- Polarity : Indicated by cathode band
- Weight : 0.093 gram

### Marking



### Maximum Ratings & 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%

Parameter	Symbol	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0						A		
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	50						A		
Maximum Instantaneous Forward Voltage @ 2.0A	V <sub>F</sub>	1.3						V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0						uA	Ta=25°C	
		200						uA	Ta=125°C	
Maximum Reverse Recovery Time	trr	150		250	500	ns	Note 1			
Typical Junction Capacitance	C <sub>J</sub>	50						pF	Note 2	
Typical Thermal Resistance	R <sub>th(j-a)</sub>	55						°C/W	Note 3	
	R <sub>th(j-l)</sub>	18						°C/W		
Operation Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150						°C		

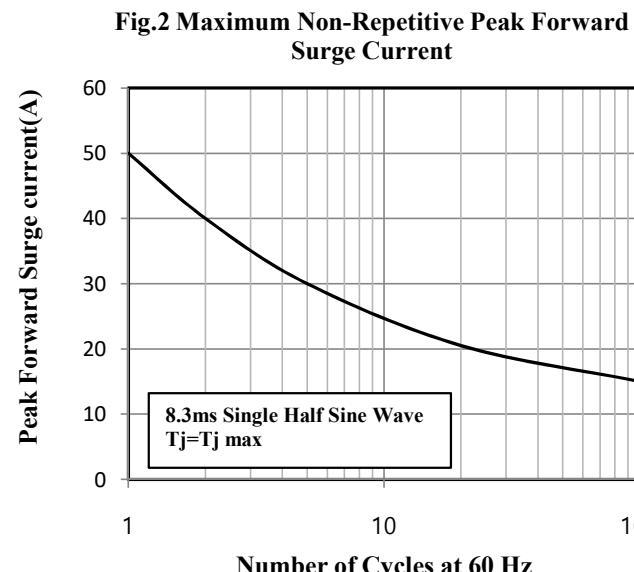
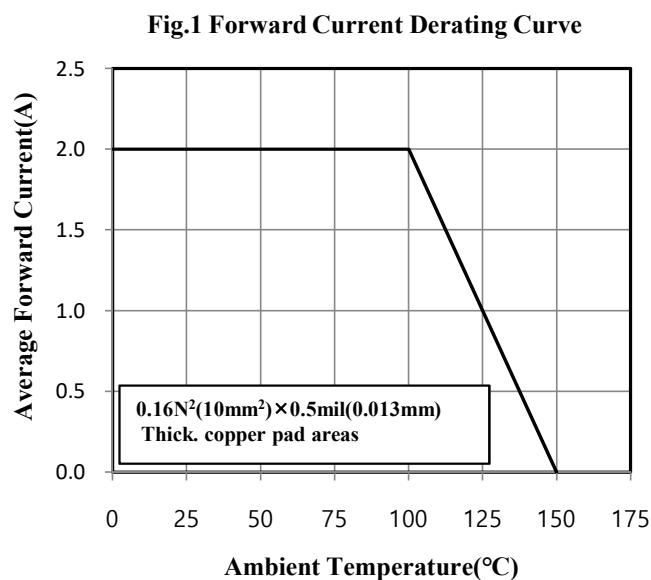
Note 1. Reverse Recovery Time Test Conditions : I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

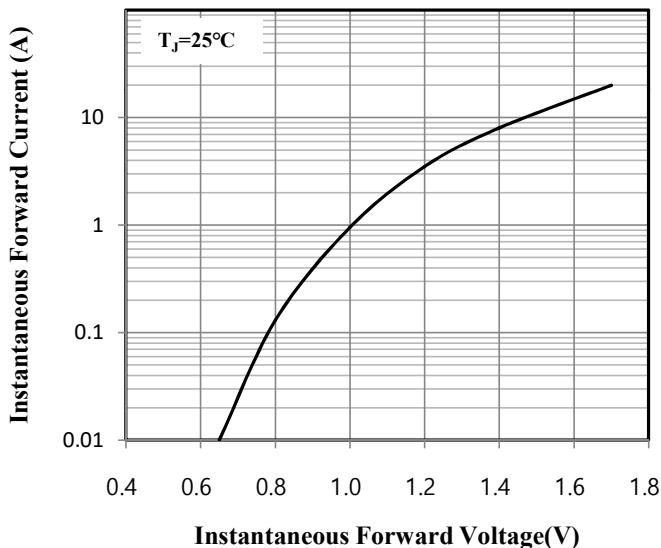
Note 3. Measured on P.C.Board with 0.4" × 0.4" (10mm×10mm ) Copper Pad Areas.



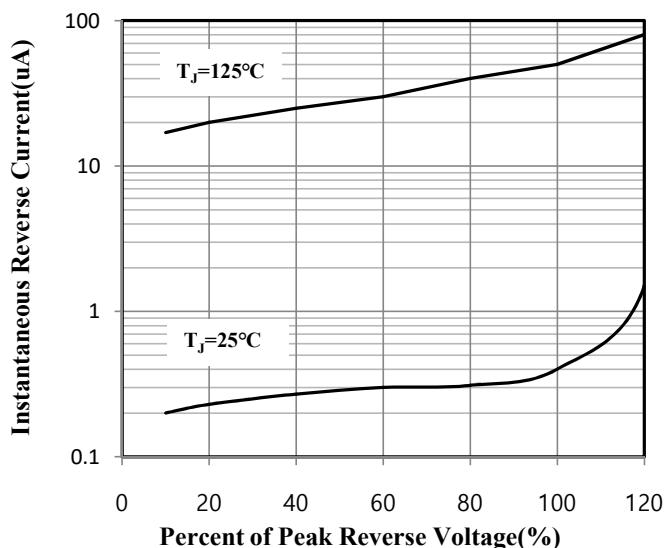
**Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)**



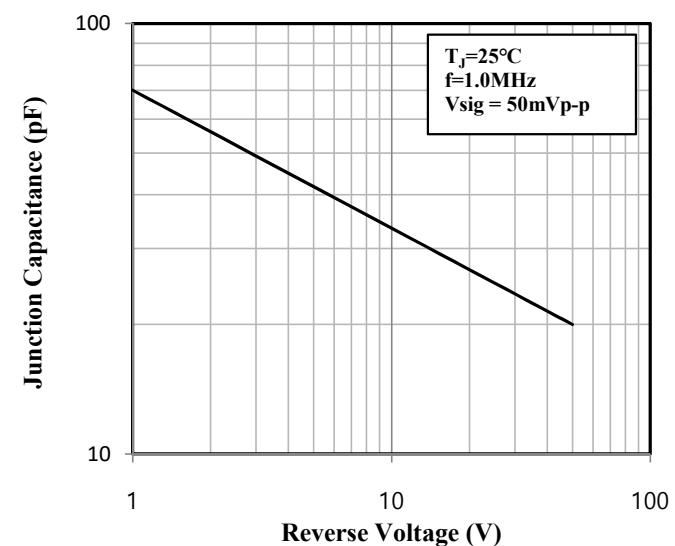
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.5 Typical Reverse Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig. 6 Reverse Recovery Time Charateristic and Test Circuit Diagram**

