

**Surface Mount Rectifiers**  
**Reverse Voltage 2000 Volts Forward Current 1.0 Ampere**

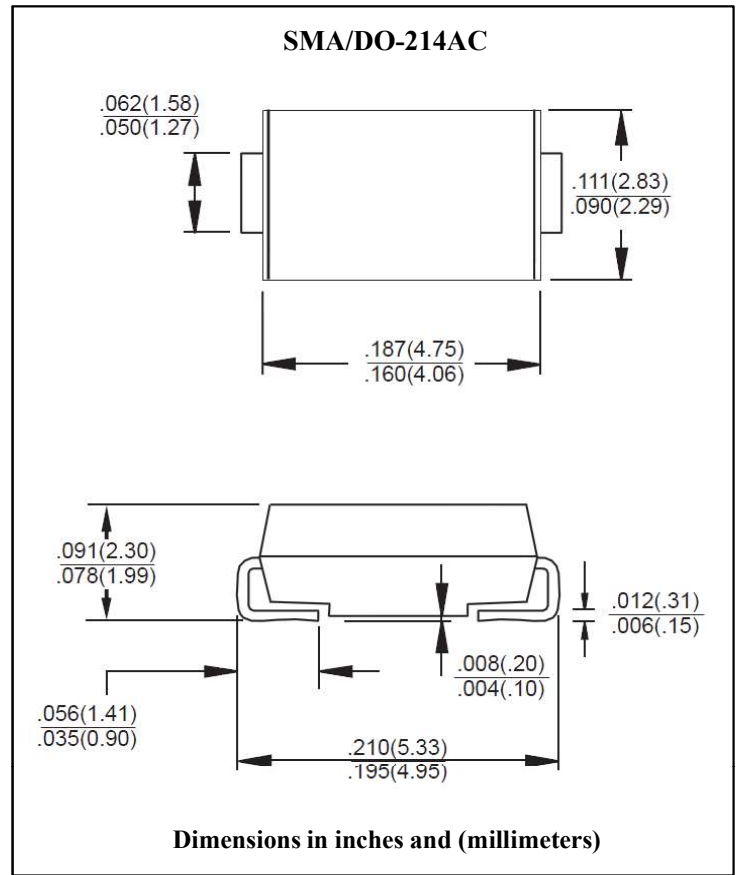
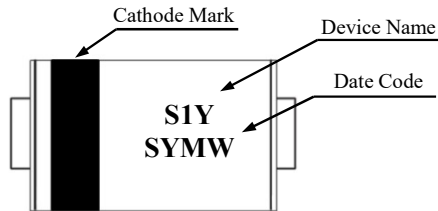
**Features**

- For surface mounted application
- Glass passivated junction chip
- Low forward voltage drop
- High current capability
- Easy pick and place
- High surge current capability
- Plastic material used carries underwriters laboratory classification 94V-0
- High temperature soldering : 260°C /10 seconds at terminals

**Mechanical Data**

- Case : Molded plastic
- Terminals : Solder plated
- Polarity : Indicated by cathode band
- Packaging : 12mm tape per EIA STD RS-481
- Weight : 0.064gram

**Marking**



**Maximum Ratings & Electrical Characteristics**

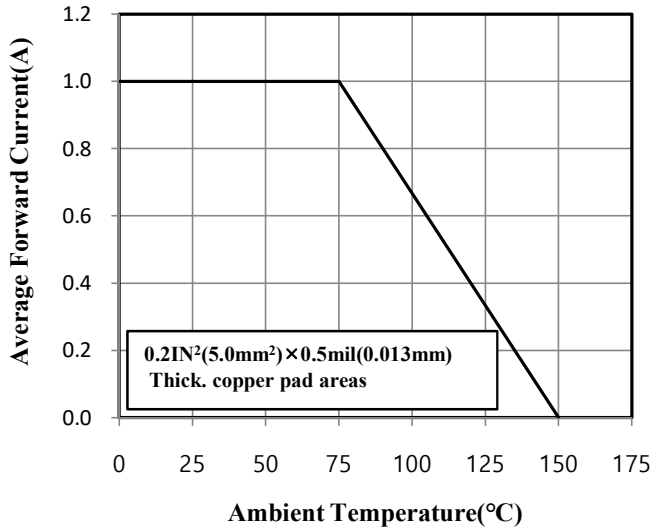
Ratings at 25°C ambient temperature unless otherwise specified  
Single phase half wave 60 Hz, resistive or inductive load  
For capacitive load, derate current by 20%

Parameter	Symbol	Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	2000	V	
Maximum RMS Voltage	$V_{RMS}$	1400	V	
Maximum DC Blocking Voltage	$V_{DC}$	2000	V	
Maximum Average Forward Rectified Current	$I_F(AV)$	1.0	A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30	A	
Maximum Instantaneous Forward Voltage @ 1.0A	$V_F$	1.2	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0	uA	Ta=25°C
		50	uA	Ta=125°C
Typical Junction Capacitance	$C_J$	5.4	pF	Note 2
Typical Thermal Resistance	$R_{th(j-a)}$	10	°C /W	Note 3
Operation Junction Temperature Range	$T_J$	-55 to +150	°C	
Storage Temperature Range	$T_{STG}$	-55 to +150	°C	

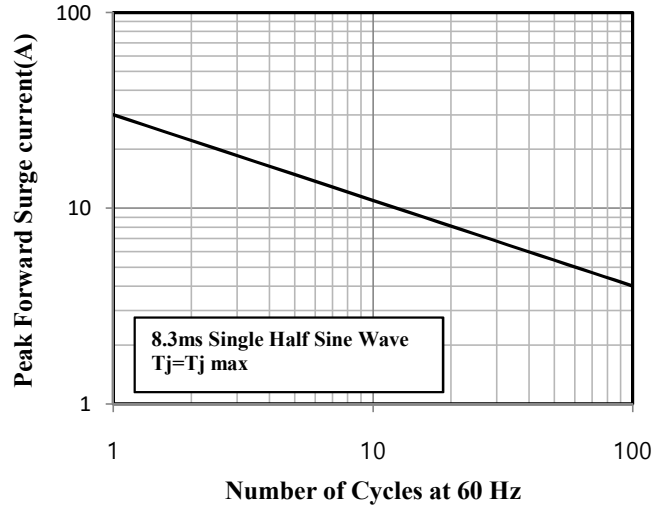
Note 1. Reverse Recovery Time Test Conditions :  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$   
 Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.  
 Note 3. Mount on Cu-Pad Size 8mm×8mm on P.C.B.

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

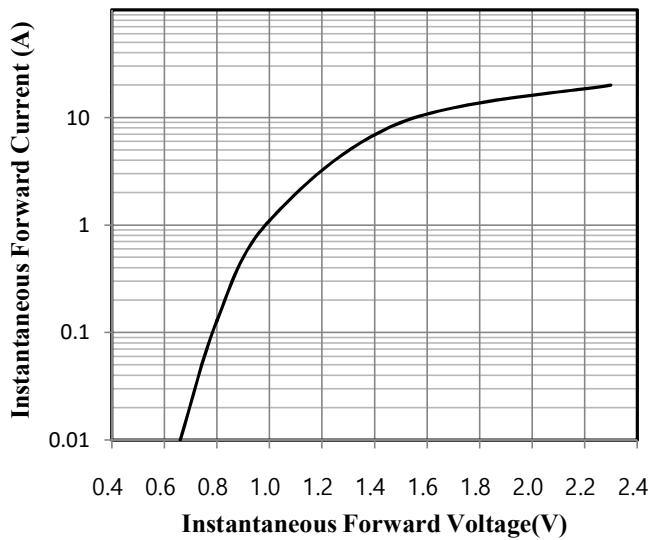
**Fig.1 Forward Current Derating Curve**



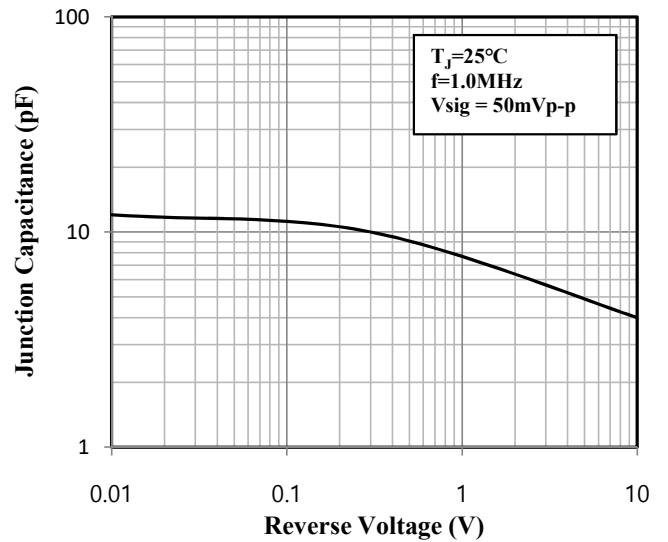
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**

