

**Surface Mount Rectifiers**  
**Reverse Voltage 50 to 1000 Volts Forward Current 10.0 Amperes**

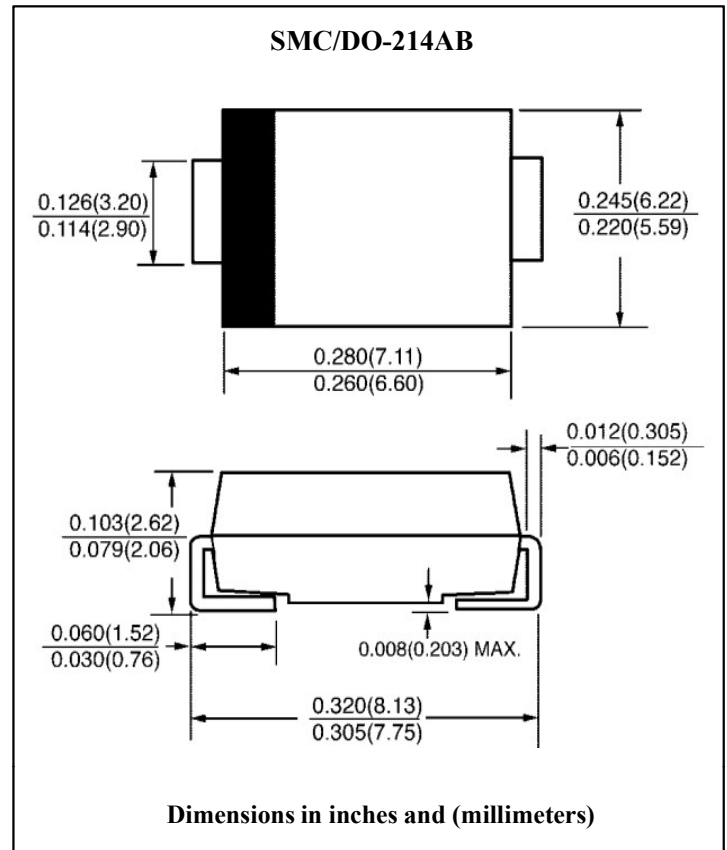
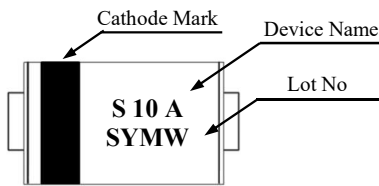
**Features**

- 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-O
- High temperature soldering : 260°C /10 seconds at terminals

**Mechanical Data**

- Case : Molded plastic
- Terminals : Solder plated , solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Packaging : 12mm tape per EIA STD RS-481
- Weight : 0.21gram

**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	S10A	S10B	S10D	S10G	S10J	S10K	S10M	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	$I_F(AV)$	10							A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	200							A	
Maximum Instantaneous Forward Voltage @ 10A	$V_F$	1.20							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10.0							uA	Ta=25°C
		100							uA	Ta=100°C
Typical Junction Capacitance	$C_J$	60							pF	Note 1
Typical Thermal Resistance	Rth(j-a)	10							°C/W	Note 2
Operation Junction Temperature Range	$T_J$	-55 to +150							°C	
Storage Temperature Range	$T_{STG}$	-55 to +150							°C	

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

Note 2. Measured on P.C.Board with 0.6" × 0.6" (16mm×16mm ) Copper Pad Areas.



Ratings and Characteristics Curves ( $T_a=25^\circ\text{C}$  unless otherwise noted)

Fig.1 Forward Current Derating Curve

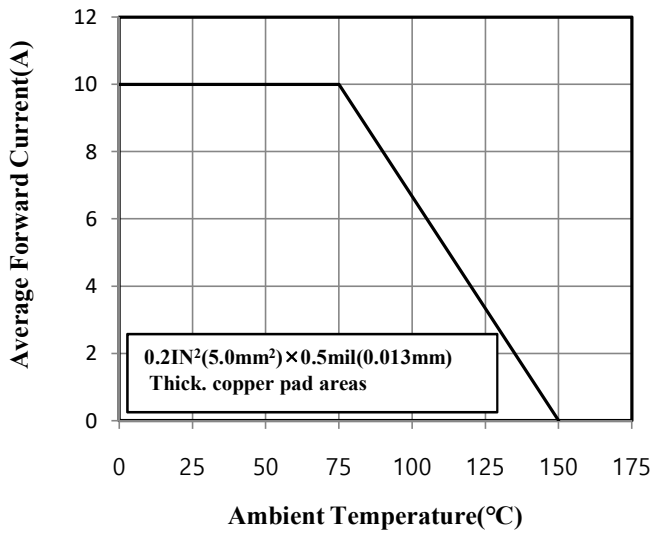


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

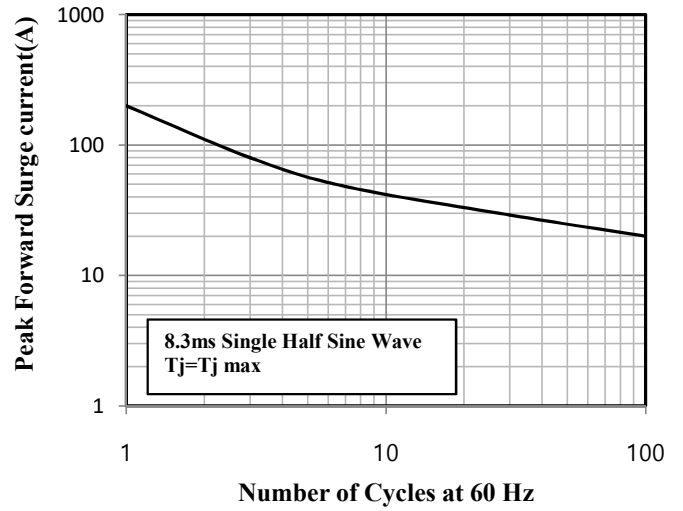


Fig.3 Typical Instantaneous Forward Characteristics

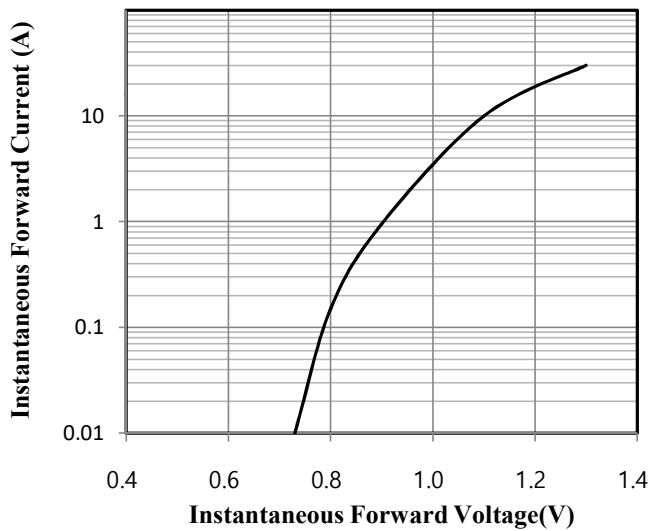


Fig.4 Typical Junction Capacitance

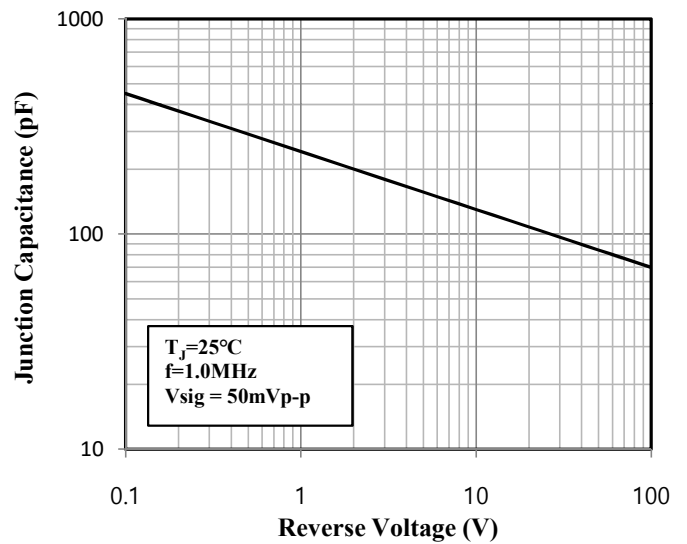


Fig.5 Typical Reverse Characteristics

