



## Surface Mount Schottky Barrier Rectifiers

Reverse Voltage 20 to 150 Volts Forward Current 3.0 Amperes

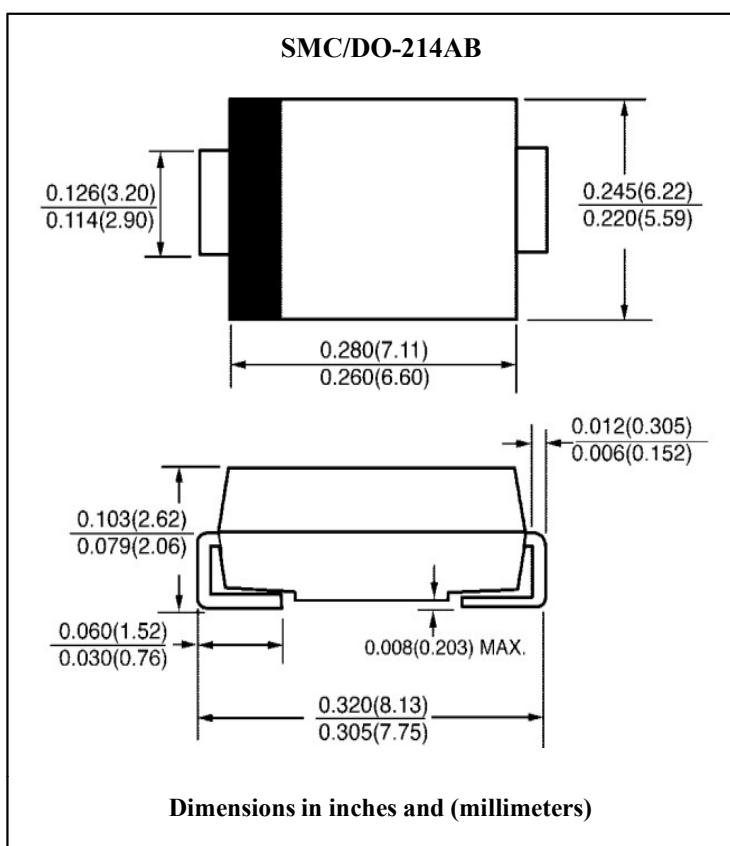
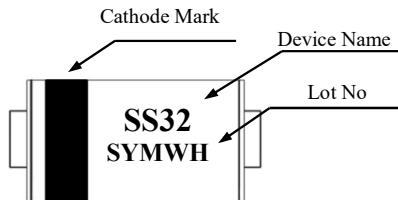
### Features

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carries underwriters laboratory classification 94V-O
- Epitaxial construction
- High temperature soldering : 260°C /10 seconds at terminals

### Mechanical Data

- Case : JEDEC DO-214AB Molded plastic
- Terminals : Pure tin plated, lead free
- Polarity : Indicated by cathode band
- Packaging : 16mm tape per EIA STD RS-481
- Weight : 0.21 gram

### Marking

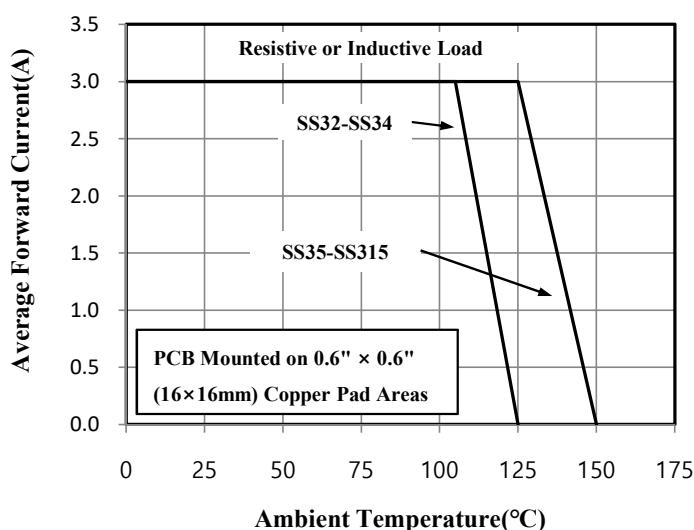
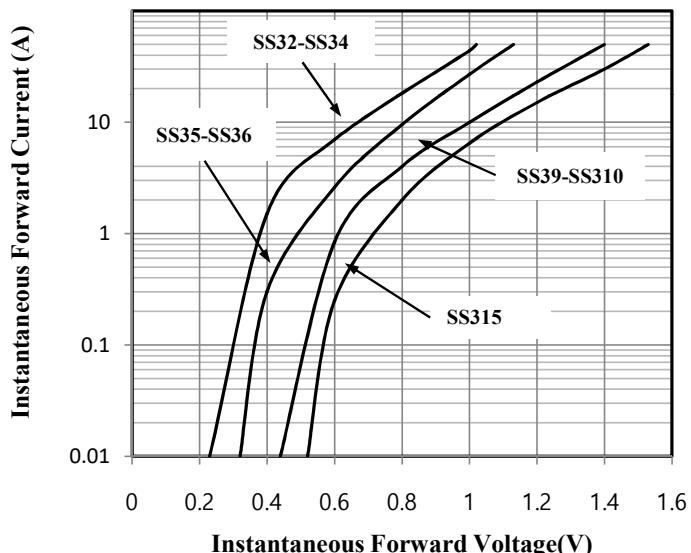
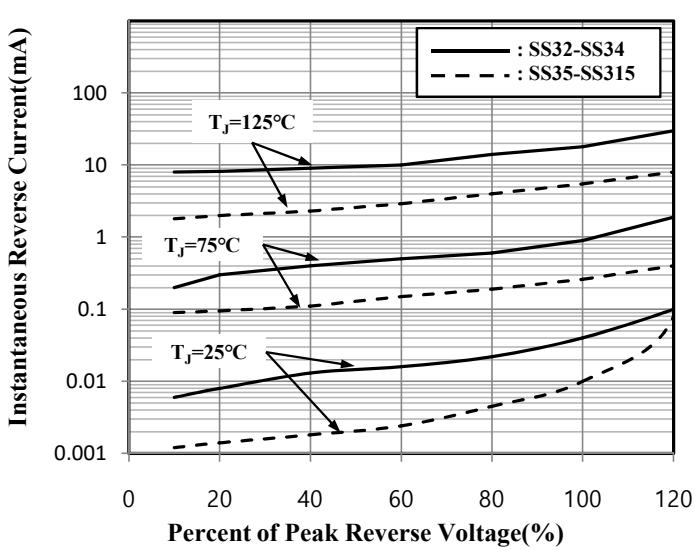
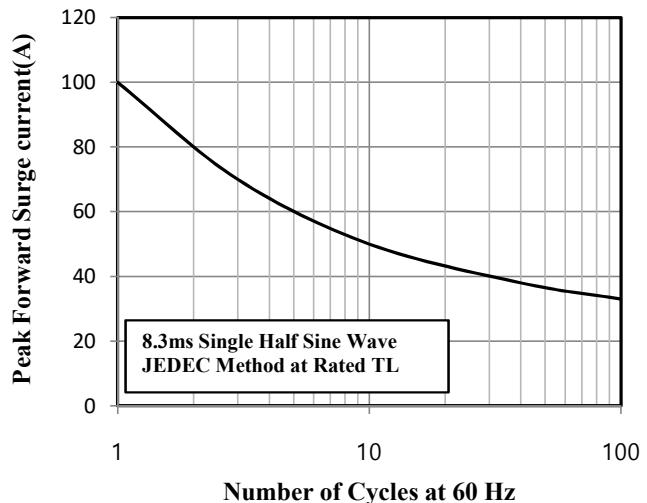
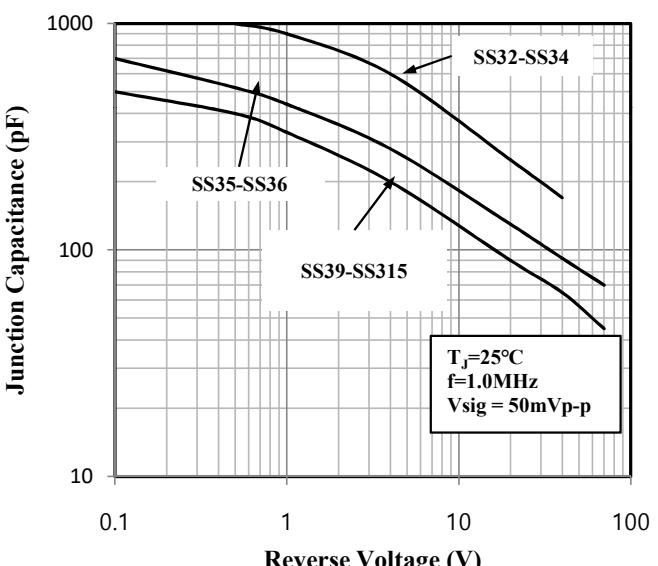


### Maximum Ratings & Electrical Characteristics

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	SS32	SS33	SS34	SS35	SS36	SS39	SS310	SS315	Unit	Remark			
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	90	100	150	V				
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	105	V				
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	90	100	150	V				
Maximum Average Forward Rectified Current at T <sub>L</sub> (See Fig.1)	I <sub>F(AV)</sub>	3.0							A					
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	100							A					
Maximum Instantaneous Forward Voltage @ 3.0A	V <sub>F</sub>	0.50		0.75		0.85		0.95		V	T <sub>a</sub> =25°C			
		0.40		0.65		0.70		0.80		V	T <sub>a</sub> =100°C			
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.5			0.6			mA		T <sub>a</sub> =25°C				
		20		10		20		mA		T <sub>a</sub> =125°C				
Typical Thermal Resistance	R <sub>th(j-l)</sub>	17							°C /W	Note 1				
		55							°C /W					
Operation Junction Temperature Range	T <sub>J</sub>	-55 to +125		-55 to +150				°C						
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C					

Note 1. Measured on P.C.Board with Size 0.6"×0.6" (16mm×16mm ) Copper Pad Areas.

**Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)**
**Fig.1 Forward Current Derating Curve**

**Fig.3 Typical Instantaneous Forward Characteristics**

**Fig.5 Typical Reverse Characteristics**

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

**Fig.4 Typical Junction Capacitance**

**Fig.6 Typical Transient Thermal Characteristics**
