



## Surface Mount Schottky Barrier Rectifiers

Reverse Voltage 20 to 100 Volts Forward Current 3.0 Amperes

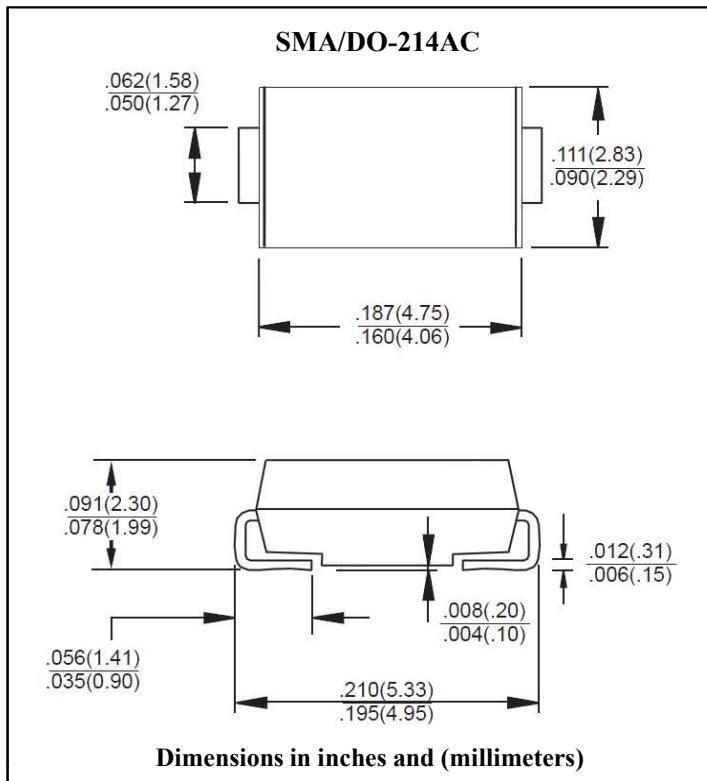
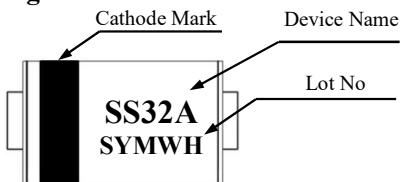
### Features

- 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 : 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%

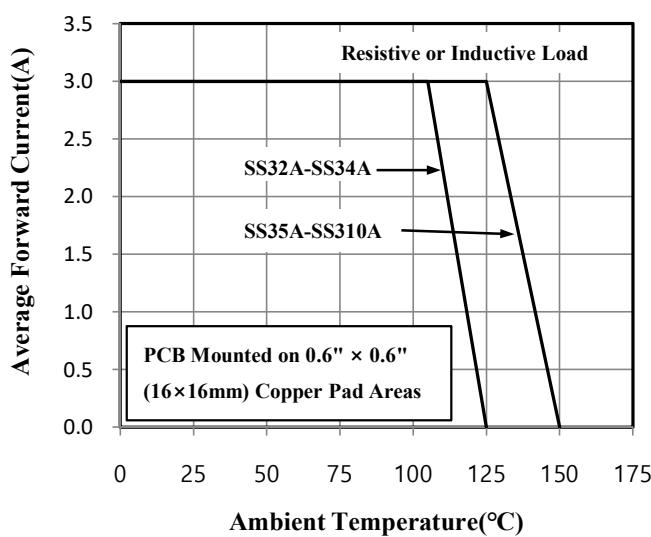
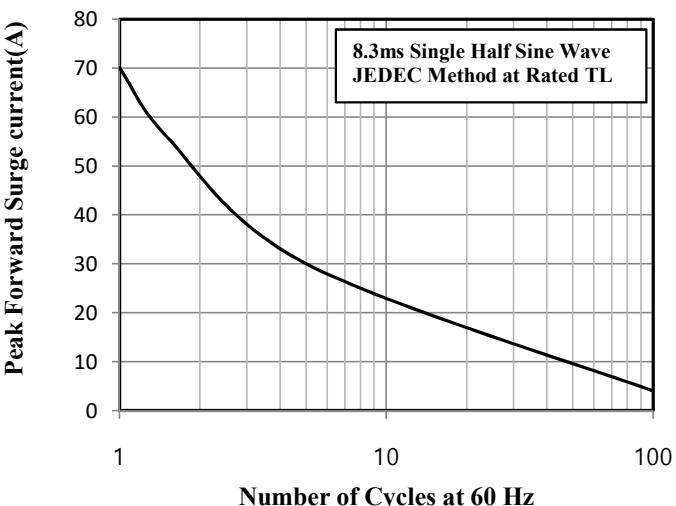
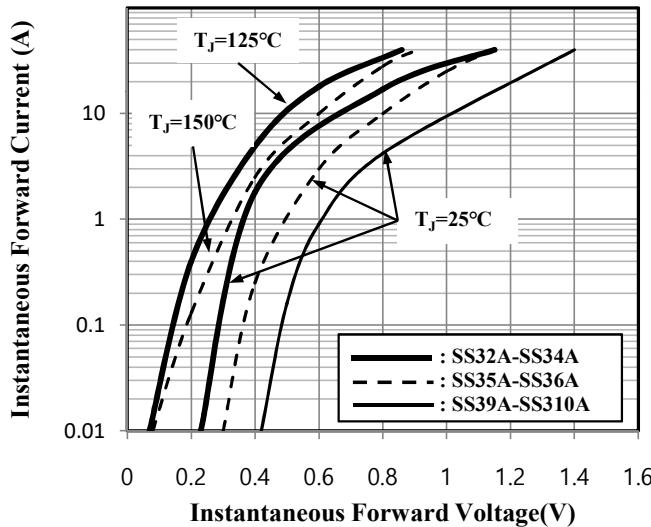
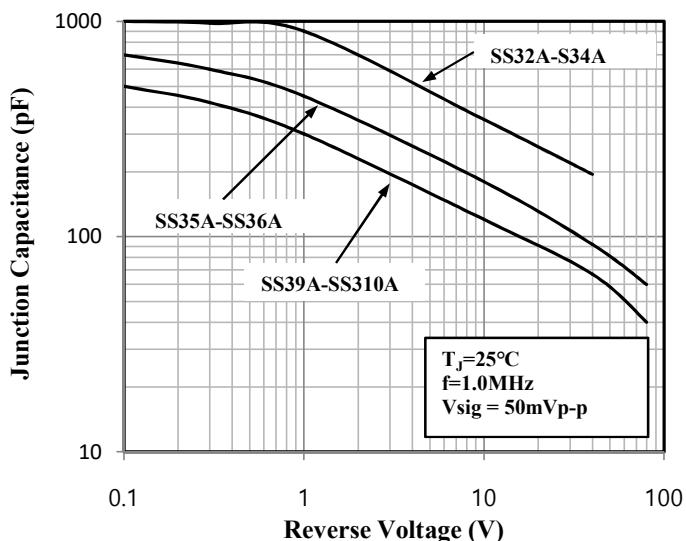
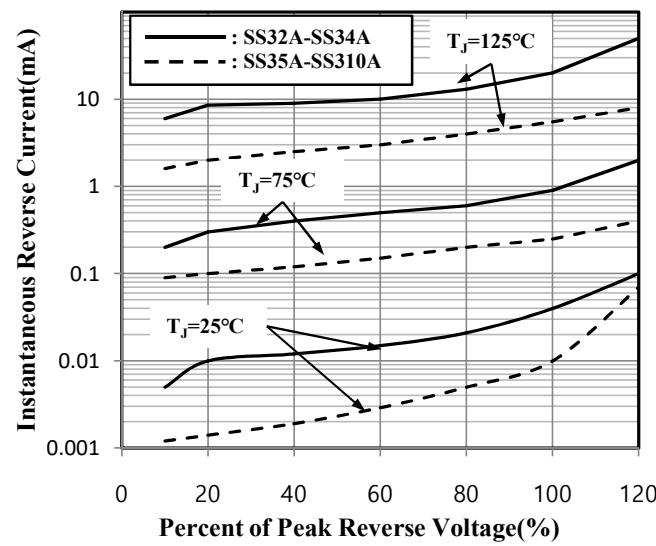
Parameter	Symbol	SS32A	SS33A	SS34A	SS35A	SS36A	SS39A	SS310A	Unit	Remark				
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	90	100	V					
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	V					
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	90	100	V					
Maximum 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>	70							A					
Maximum Instantaneous Forward Voltage @ 3.0A	V <sub>F</sub>	0.50		0.75		0.85		V	Note 1					
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.5			0.6			mA	Ta=25°C					
		20		10		20		mA	Ta=100°C					
Typical Junction Capacitance	C <sub>J</sub>	12						pF	Note 2					
Typical Thermal Resistance	R <sub>th(j-l)</sub>	17						°C /W	Note 3					
	R <sub>th(j-a)</sub>	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. Pulse Test with PW=300usec, 1% Duty Cycle

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

Note 3. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C

**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**

**Fig.6 Typical Transient Thermal Impedance**
