

# **SS115**

## 1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Voltage Range 150 Volts Current 1.0 Ampere

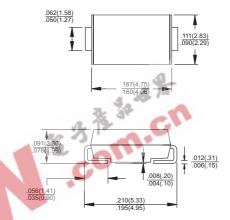
SMA/DO-214AC

#### **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 carriers 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: 0.064 gram



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	SS115	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	150	V
Maximum RMS Voltage	V <sub>RMS</sub>	105	V
Maximum DC Blocking Voltage	$V_{DC}$	150	V
Maximum Average Forward Rectified Current at T <sub>L</sub> (See Fig. 1)	I <sub>(AV)</sub>	1.0	А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	30	А
Maximum Instantaneous Forward Voltage (Note 1) @ 25°C 1.0A @ 125°C 1.0A @ 25°C 2.0A @ 125°C 2.0A	V <sub>F</sub>	0.82 0.67 0.89 0.75	>
Maximum DC Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 125^{\circ}C$	I <sub>R</sub>	0.05 0.5	mA mA
Typical Junction Capacitance (Note 3)	Cj	50	pF
Typical Thermal Resistance (Note 2)	R⊕JL	20	°C/W
Operating Temperature Range	TJ	-65 to +150	౮
Storage Temperature Range	Тѕтс	-65 to +150	°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

- 2. Measured on P.C.Board with 0.2 x 0.2"(5.0 x 5.0mm) Copper Pad Areas.
- 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C



