

SS115

1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Voltage Range 150 Volts Current 1.0 Ampere

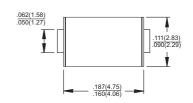
Features

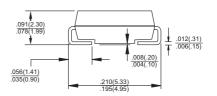
- ♦ For surface mounted application
- ♦ Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- ♦ Easy pick and place
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-O
- ♦ Epitaxial construction
- High temperature 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

SMA/DO-214AC





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_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	I _(AV)	1.0	А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30	Α
Maximum Instantaneous Forward Voltage (Note 1) @ 25°C 1.0A @ 125°C 1.0A @ 25°C 2.0A @ 125°C 2.0A	V _F	0.82 0.67 0.89 0.75	V
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	0.05 0.5	mA mA
Typical Junction Capacitance (Note 3)	Cj	50	pF
Typical Thermal Resistance (Note 2)	$R\theta JL$	20	°C/W
Operating Temperature Range	TJ	-65 to +150	${\mathbb C}$
Storage Temperature Range	Тѕтс	-65 to +150	${\mathbb C}$

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



