

SS115

1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Voltage Range 150 Volts Current 1.0 Ampere

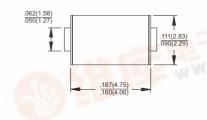
Features

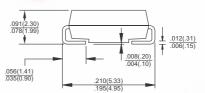
- ♦ For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-O
- ♦ Epitaxial construction
- High temperature soldering:
 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
	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	ΤJ	-65 to +150	$^{\circ}$
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

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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

1.0

RESISTIVE OR INDUCTIVE LOAD

PCB MOUNTED ON 0.2X0.2"
(5.0X5.0mm) COPPER PAD AREAS

50
60
70
80
90
100
110
120
130
140
150
160
170

LEAD TEMPERATURE. (°C)

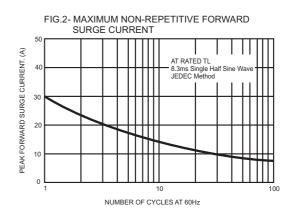
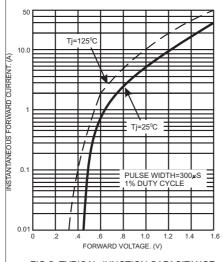


FIG.3- TYPICAL FORWARD CHARACTERISTICS



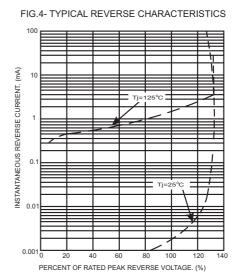


FIG.5- TYPICAL JUNCTION CAPACITANCE

