

Surface Mount Schottky Rectifiers

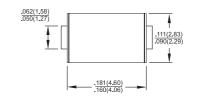
Features

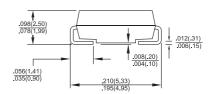
- ♦ For surface mounted application
- ♦ Easy pick and place
- ♦ Metal to silicon rectifier, majority carrier conduction
- ♦ Low power loss, high efficiency
- ♦ High current capability, low VF
- ♦ High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ♦ Epitaxial construction
- High temperature soldering: 260°C / 10 seconds at terminals

Mechanical Data

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

SMA/DO-214AC





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

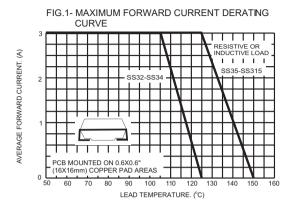
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

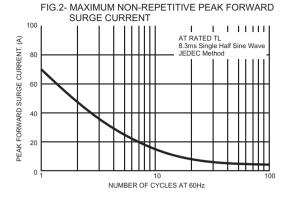
For capacitive load, derate current by 20%

Type Number	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	I _(AV)	3.0						А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100 70						А	
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C @ 100°C	V _F		0.5 0.4		-	75 65	_	85 70	>
Maximum DC Reverse Current @ T _A =25 °C at		0.5					0.1		mA
Rated DC Blocking Voltage @ T _A =125 °C	I _R		10		5		0.5		mA
Typical Thermal Resistance (Note 2)	R _{ØJL} R _{ØJA}	17 55							°C/W
Operating Temperature Range	TJ	-55 to +125 -55 to +150					°C		
Storage Temperature Range	Tstg	-55 to +150							°C

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









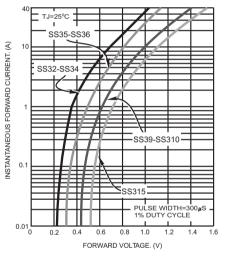


FIG.4- TYPICAL REVERSE CHARACTERISTICS

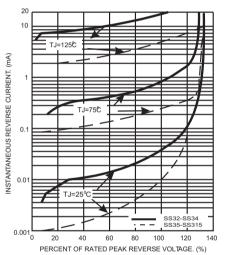


FIG.5- TYPICAL JUNCTION CAPACITANCE

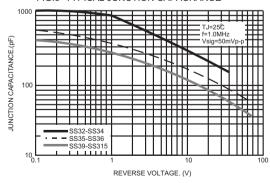


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS

