

SS32 THRU SS310

3.0 AMPS. Surface Mount Schottky Barrier Rectifiers



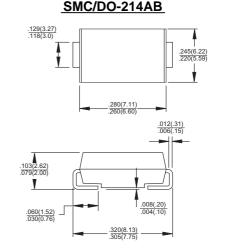
Voltage Range 20 to 100 Volts Current 3.0 Amperes

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 carriers Underwriters Laboratory Classification 94V-0
- ♦ 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: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.21 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.

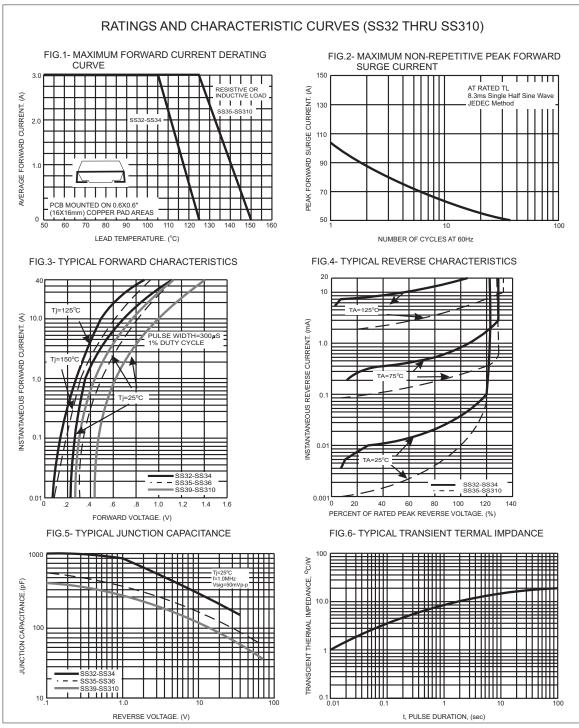
For capacitive load, derate current by 20%

Type Number	Symbol	SS	SS	SS	SS	SS	SS	SS	Units
		32	33	34	35	36	39	310	
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							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100							А
Maximum Instantaneous Forward Voltage (Note 1) @ 3.0A	V _F	0.5			0.75		0.85		V
	I_R	0.5 0.6							mΑ
	10	20			10.0		20		mΑ
Typical Thermal Resistance (Note 2)	$R\theta_{JL}$	17							°C/W
	$R\theta_{JA}$	55							°C/W
Operating Temperature Range	T_J	-55 to +125 -55 to +150					${\mathfrak C}$		
Storage Temperature Range	Тѕтс	-55 to +150							${\mathfrak C}$

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

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





This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.