

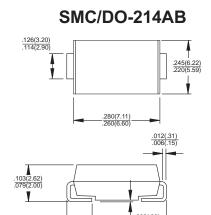
SCHOTTKY BARRIER RECTIFIERS

PRODUCT SUMMARY

3.0 AMPS Surface Mount

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:



Dimensions in inches and (millimeters)

MECANICAL DATA

Case: JEDEC DO-214AB Molded plastic Terminals: Pure tin plated, lead free. Polarity: Indicated by cathode band

260°C / 10 seconds at terminals

Packaging: 16mm tape per EIA STD RS-481

Weight: 0.21gram

Pö

Pb-free; RoHS-compliant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

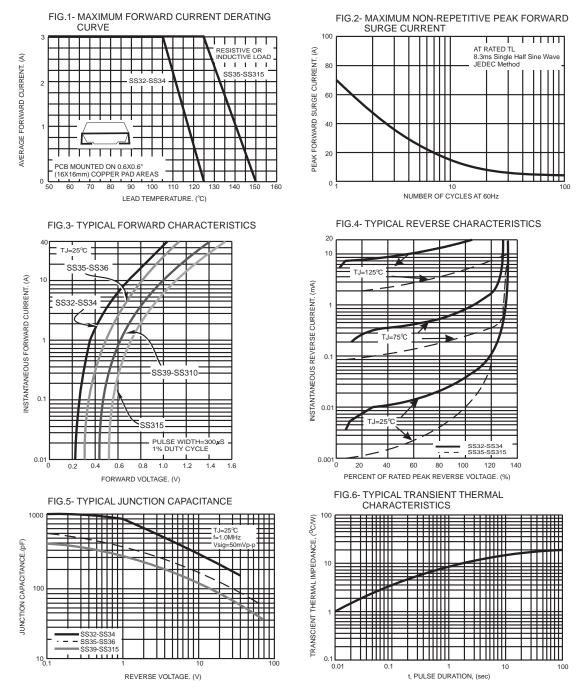
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	٧
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	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			70					Α
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C @ 100°C	V _F		0.5 0.4			75 65		85 70	0.95 0.80	V
Maximum DC Reverse Current @ T _A =25 °C at		0.5						0.1		mΑ
Rated DC Blocking Voltage @ T _A =125 °C	I _R	10			5		0.5			mΑ
Typical Thermal Resistance (Note 2)	R _{ØJL} R _{ØJA}	17 55								°C/W
Operating Temperature Range	TJ	-55 to +125 -55 to +1				50		°C		
Storage Temperature Range	Тѕтс	-55 to +150								Ŝ

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



RATINGS AND CHARACTERISTIC CURVES (SS32 THRU SS315)



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