

SCHOTTKY BARRIER RECTIFIERS

PRODUCT SUMMARY

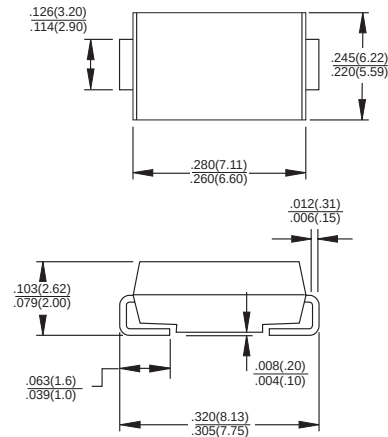
3.0 AMPS Surface Mount

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:
 260 °C / 10 seconds at terminals



SMC/DO-214AB



MECHANICAL DATA

Case: JEDEC DO-214AB Molded plastic
 Terminals: Pure tin plated, lead free.
 Polarity: Indicated by cathode band
 Packaging: 16mm tape per EIA STD RS-481
 Weight: 0.21gram

Dimensions in inches and (millimeters)



Pb-free; RoHS-compliant

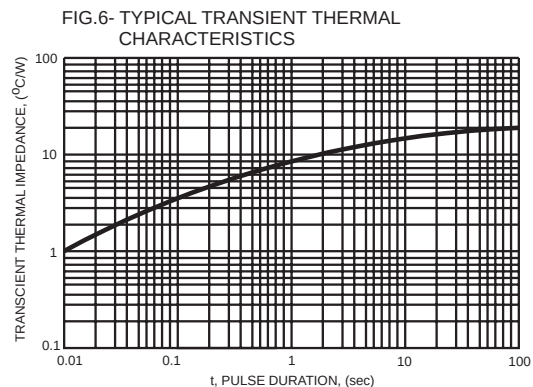
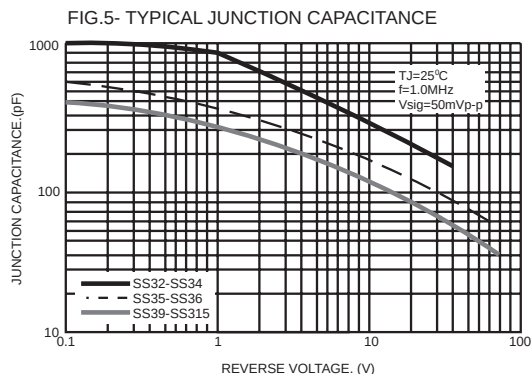
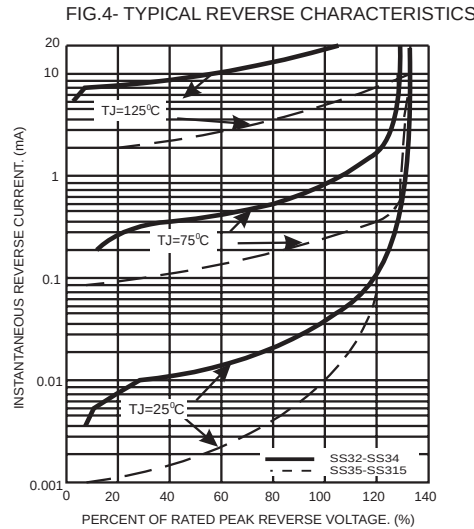
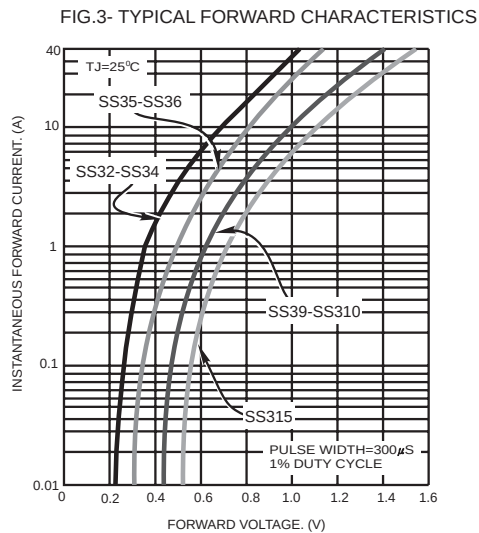
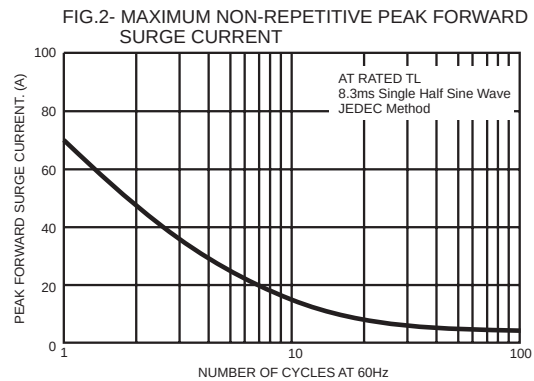
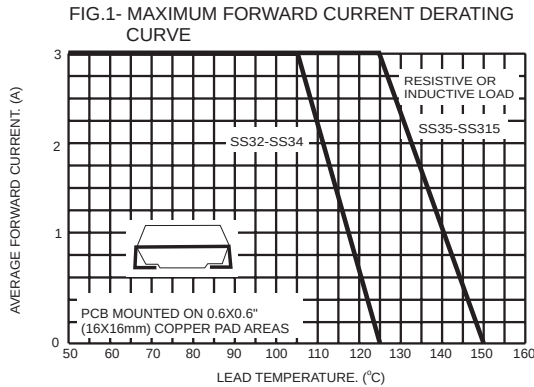
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	V
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								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100			70					A
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C @ 100°C	V _F	0.5 0.4		0.75 0.65		0.85 0.70		0.95 0.80		V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	0.5					0.1			mA
		10		5		0.5		mA		
Typical Thermal Resistance (Note 2)	R _{θJL} R _{θJA}	17 55								°C/W
Operating Temperature Range	T _J	-55 to +125			-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

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

RATINGS AND CHARACTERISTIC CURVES (SS32 THRU SS315)



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