

SCHOTTKY BARRIER RECTIFIERS

PRODUCT SUMMARY

2.0 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

MECANICAL DATA

Case: Molded plastic

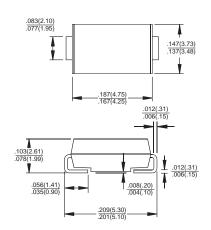
Terminals: Pure tin plated, lead free. Polarity: Indicated by cathode band

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.093gram

181

SMB/DO-214AA



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 22	SS 23	SS 24	SS 25	SS 26	SS 29	SS 210	SS 215	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	٧
Maximum Average Forward Rectified Current at $T_L(See\ Fig.\ 1)$	I _(AV)	2.0							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α	
Maximum Instantaneous Forward Voltage (Note 1) IF= 2.0A @ 25°C @ 100°C	V _F		0.5 0.4		_	70 65		85 70	0.95 0.80	V
Maximum DC Reverse Current @ T _A =25 °C at	I _R	0.4					0.1		mA	
Rated DC Blocking Voltage @ T _A =125 °C	'K	'К					5.0			mA
Typical Junction Capacitance (Note 3)	Cj	130							pF	
Typical Thermal Resistance (Note 2)	R _{ØJL} R _{ØJA}	17 75								°C/W
Operating Temperature Range	Τ _J	-65 to +125 -65 to +150						°C		
Storage Temperature Range	Тѕтс	-65 to +150								°C

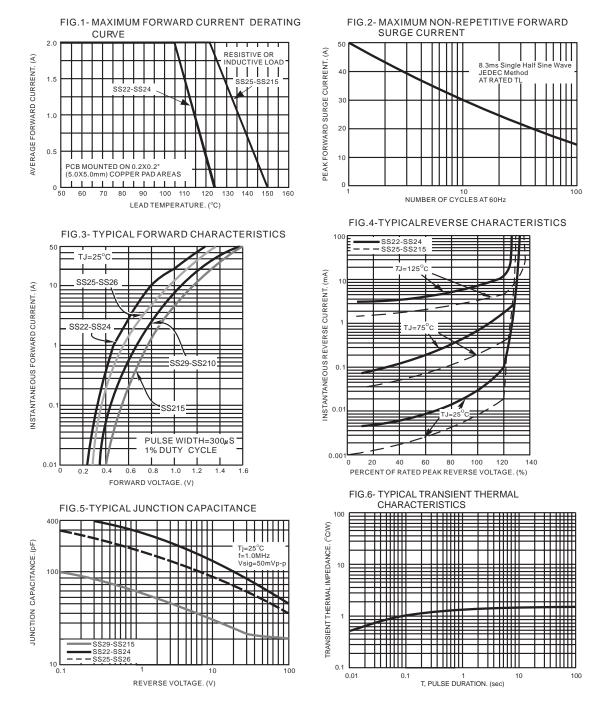
Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Measured on P.C.Board with 0.4" x 0.4"(10mm x 10mm) Copper Pad Areas.

3. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS215)



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