







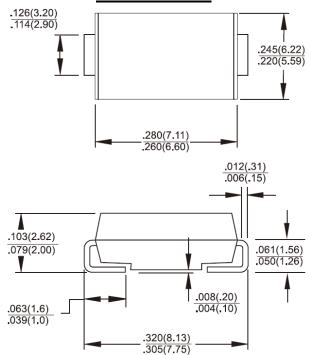
# **Features**

- ♦ UL Recognized File # E-326243
- ♦ For surface mounted application
- ♦ Easy pick and place
- Metal to sillicon 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
- Green compound with suffix "G" on packing code & prefix "G" on datecode

# **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: 0.21 gram

# 3.0AMPS Surface Mount Schottky Barrier Rectifiers SMC/DO-214AB



#### **Dimensions in inches and (millimeters)**

# **Marking Diagram**

SS3X = Specific Device Code

G = Green Compound

Y = Year

M = Work Month

# **Maximum Ratings and Electrical Characteristics**

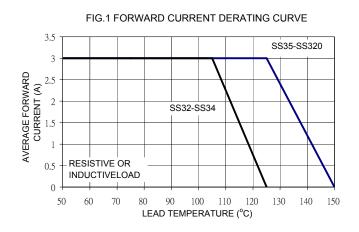
Single phase, half wave, 60 Hz, resistive or inductive load.

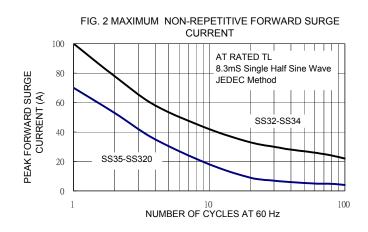
For capacitive load, derate current by 20%

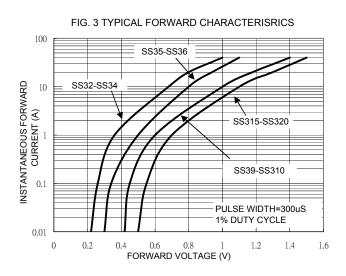
Type Number	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	SS 320	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	90	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3.0								Α	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	100 70							А		
Maximum Instantaneous Forward Voltage (Note 1) @ 3.0A $T_A$ =25 $^{\circ}$ C $T_A$ =100 $^{\circ}$ C	V <sub>F</sub>		0.5 0.4	0.7 0.6			0.85 0.70		0.95 0.80		V
Maximum Reverse Current @ Rated VR $T_A$ =25°C $T_A$ =100°C $T_A$ =125°C				0.5			0.1				
	I <sub>R</sub>	10			5		-				mA
		-					0.5				
Typical Thermal Resistance	$R_{ heta j L} \ R_{ heta j A}$	17 55									°C/W
Operating Temperature Range	TJ	- 55 to + 125 - 55 to + 150							оС		
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150									οС

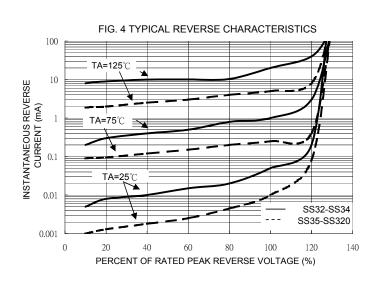
Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

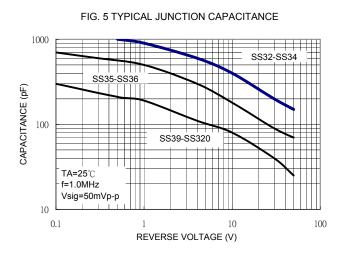
# RATINGS AND CHARACTERISTIC CURVES (SS32 THRU SS320)

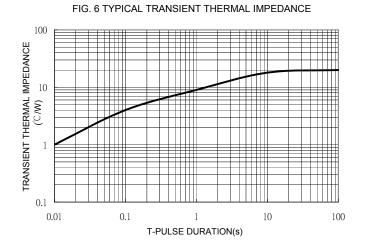












Version:E11