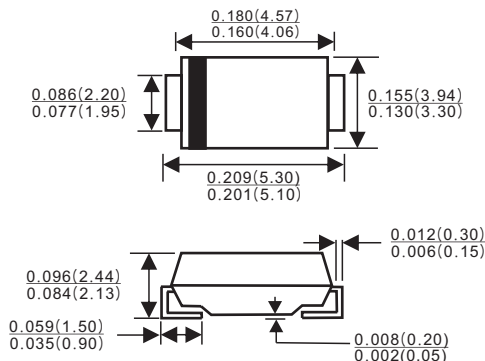




SMB/DO-214AA

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



Mechanical Data

- ✧ Case: JEDEC SMB/DO-214AA Molded plastic
- ✧ Terminals: Pure tin plated, lead free
- ✧ Polarity: Indicated by cathode band
- ✧ Weight: 0.064 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 32	SS 33	SS 34	SS 35	SS 36	SS 38	SS 39	SS 310	SS 315	SS 320	Units	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	105	125	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	150	200	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										A	
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C	V _F	0.45	0.55		0.70		0.85					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}	28 88										°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



LGE

SS32 - SS320

3.0 AMPS. Surface Mount Schottky Barrier Rectifiers



RATINGS AND CHARACTERISTIC CURVES (SS32 THRU SS320)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

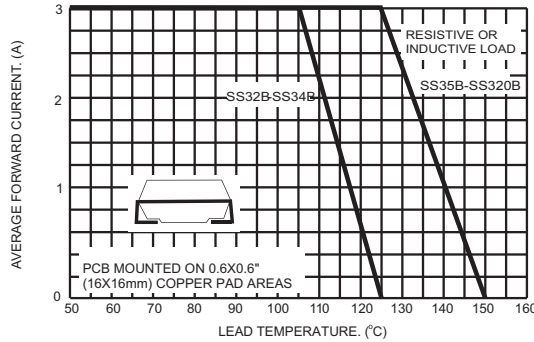


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

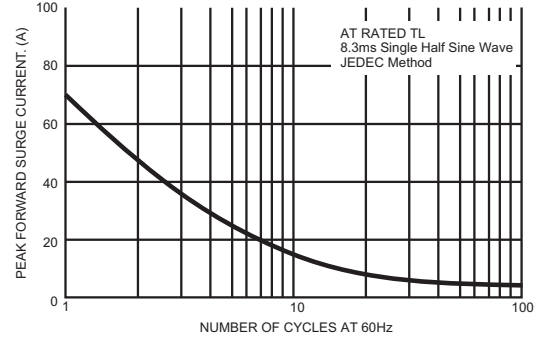


FIG.3- TYPICAL FORWARD CHARACTERISTICS

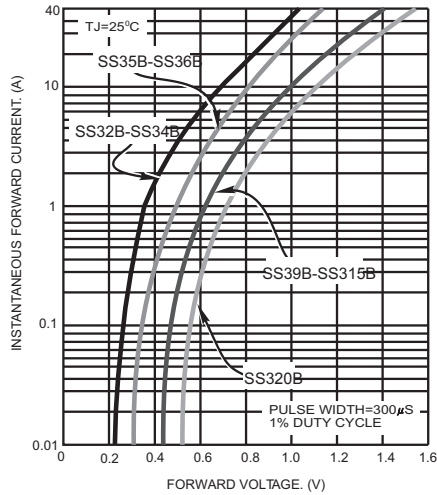


FIG.4- TYPICAL REVERSE CHARACTERISTICS

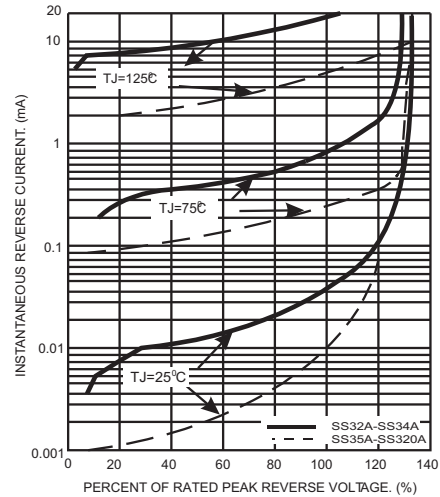


FIG.5- TYPICAL JUNCTION CAPACITANCE

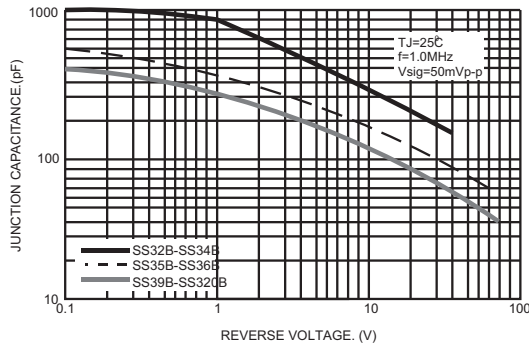
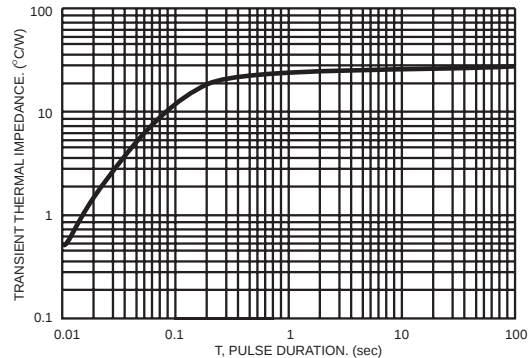


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00