

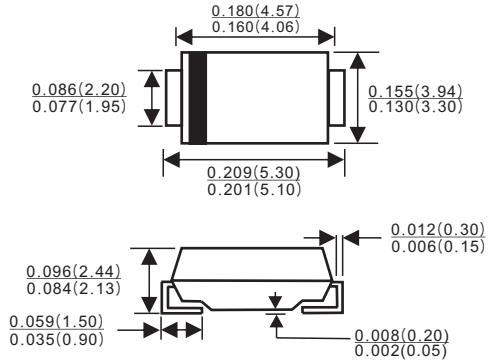


SMB/DO-214AA

Features

- ✧ FOR SURFACE MOUNTED APPLICATIONS
- ✧ LOW PROFILE PACKAGE
- ✧ BUILT-IN STRAIN RELIEF
- ✧ EASY PICK AND PLACE
- ✧ PLASTIC MATERIAL USED CARRIES UNDERWRITERS
- ✧ LABORATORY CLASSIFICATION 94 V-0
- ✧ EXTREMELY LOW VF
- ✧ MAJORITY CARRIER CONDUCTION
- ✧ HIGH TEMPERATURE SOLDERING : 260°C//10 SECONDS AT TERMINALS

Mechanical Data



Dimensions in inches and (millimeters)

- ✧ CASE : DO-214AA(SMB)
- ✧ TERMINALS : SOLDER PLATED
- ✧ POLARITY : INDICATED BY CATHODE BAND
- ✧ WEIGHT : 0.093 GRAMS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified
Resistive or inductive load

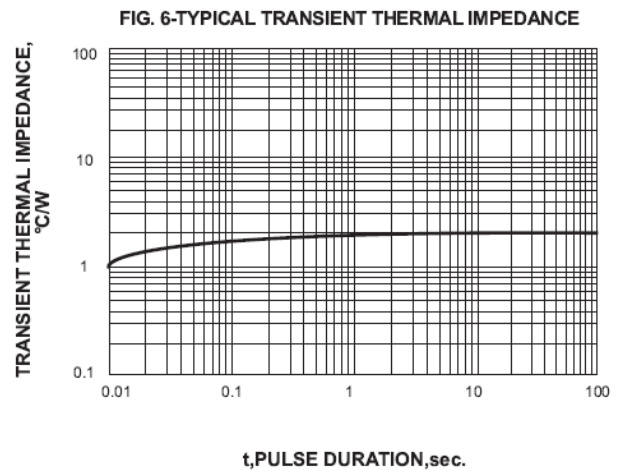
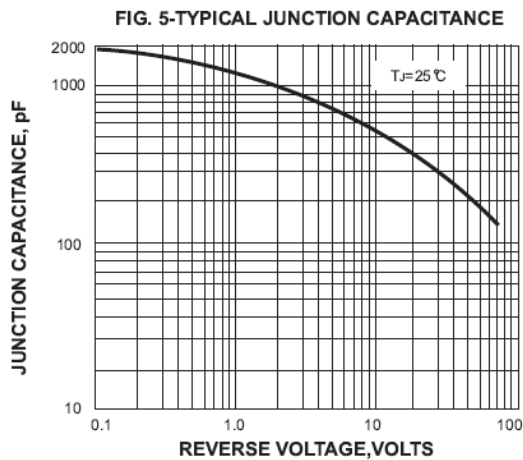
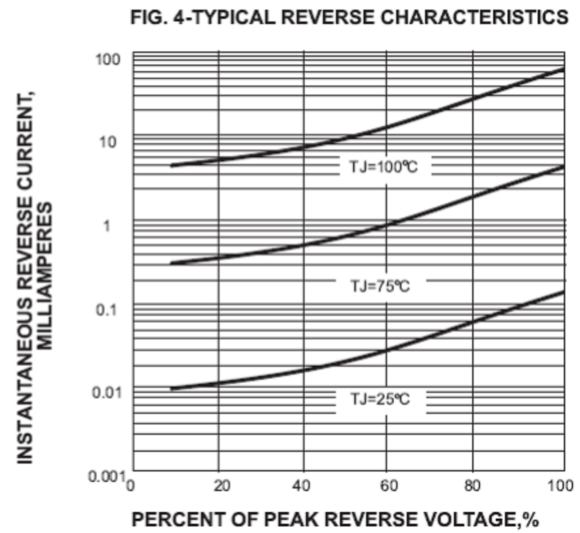
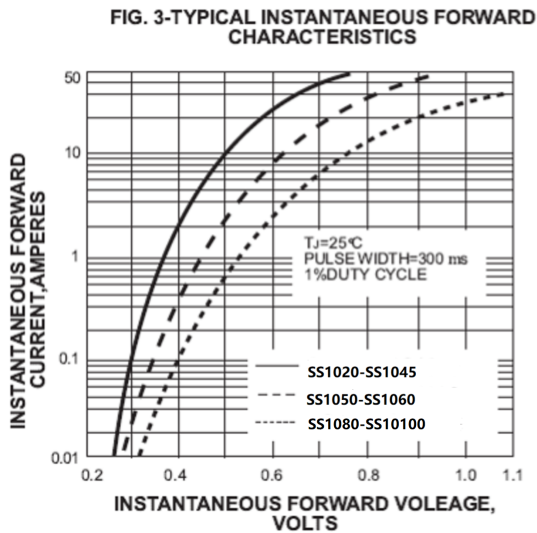
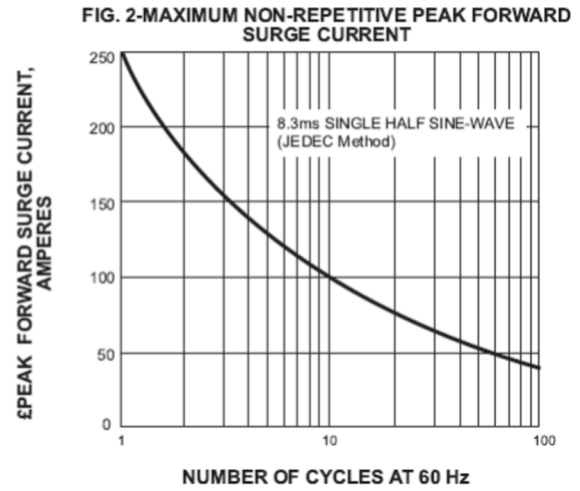
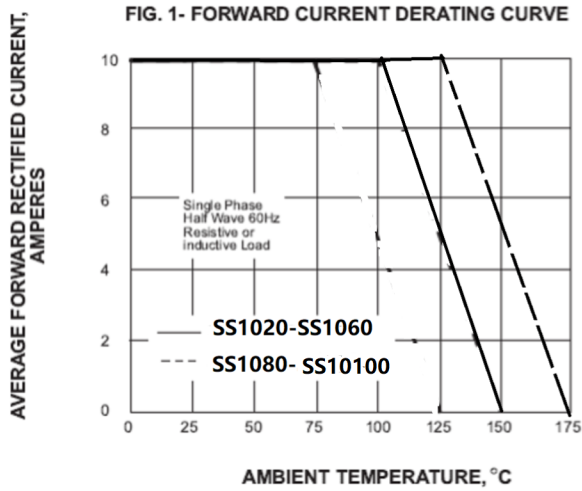
Type Number	Symbol	SS1020B	SS1030B	SS1040B	SS1045B	SS1050B	SS1060B	SS1080B	SS10100B		
Marking code		SS1020	SS1030	SS1040	SS1045	SS1050	SS1060	SS1080	SS10100	UNITS	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	Volts	
Maximum RMS Voltage	V_{RMS}	14	21	28	32	35	42	56	70	Volts	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	Volts	
Maximum Average Forward Current .375" (9.5mm) lead length at $T_L = 75^\circ C$	I_{AV}	10.0								Amps	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	250								Amps	
Maximum Instantaneous Forward Voltage at 8.0A	V_F	0.55			0.70		0.85			Volts	
Maximum DC Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R					1.0					mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JL}$					20					$^\circ C / W$
Operating Junction Temperature Range	T_J	-55 to +150						-50 to +175			$^\circ C$
Storage and Operating Temperature Range	T_{STG}	-55 to +150						-50 to +175			$^\circ C$

NOTES :

1. Pulse test with $PW = 300 \mu sec$, 1% duty cycle
2. Mounted on P.C.Board with $8mm^2$ (0.13mm think) copper pad areas



RATINGS AND CHARACTERISTIC CURVES



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