



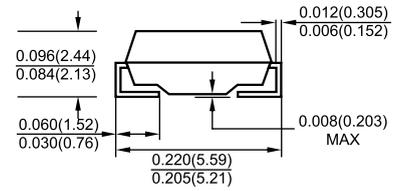
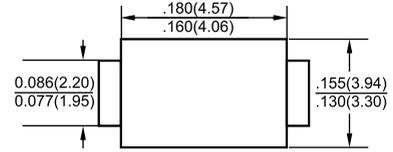
## Features

- ✧ 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

- ✧ CASE : DO-214AB(SMB)
- ✧ TERMINALS : SOLDER PLATED
- ✧ POLARITY : INDICATED BY CATHODE BAND

### SMB(DO-214AA)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter		SS815B	SS820B	
<b>Marking code</b>	SYMBOL	SS815	SS820	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	150	200	Volts
Maximum Average Forward Current .375" (9.5mm) lead length at $T_L = 75^\circ C$	$I_{(AV)}$	8		Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	150		Amps
Maximum Instantaneous Forward Voltage at 8.0A	$V_F$	0.85		Volts
Maximum DC Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	$I_R$	0.1 20		mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	75 20		$^\circ C / W$
Operating Junction Temperature Range	$T_J$	-55 to +175		$^\circ C$
Storage and Operating Temperature Range	$T_{STG}$	-55 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 thick) copper pad areas



## Ratings AND Characteristic Curves

Fig.1 - FORWARD CURRENT DERATING CURVE

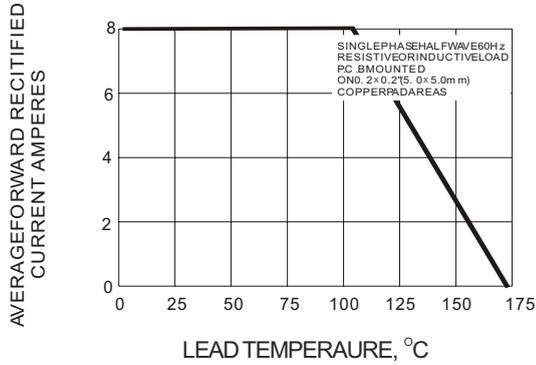


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

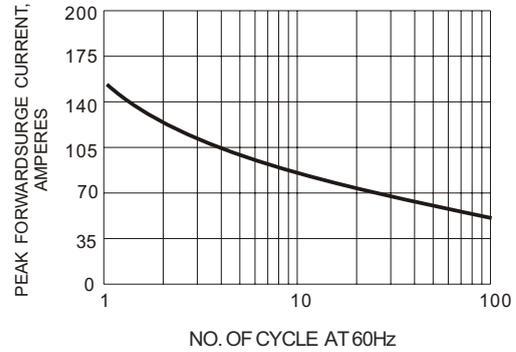


FIG.3-TYPICAL FORWARD CHARACTERISTICS

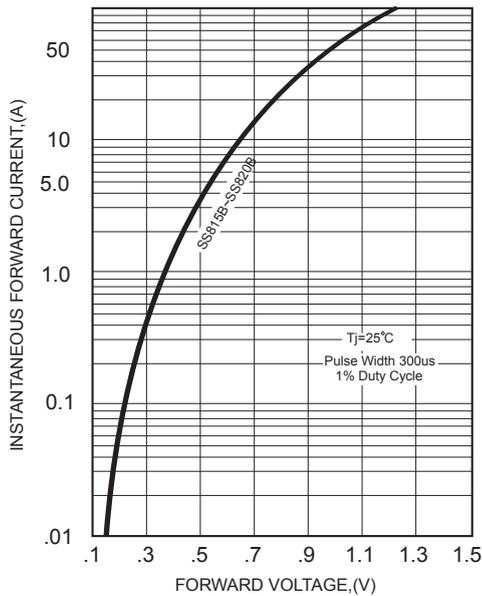
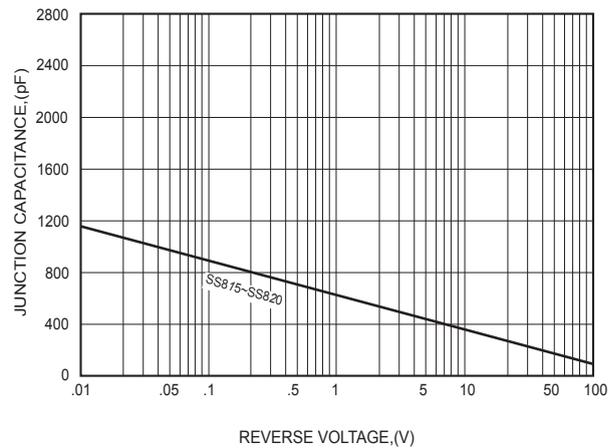


FIG.4-TYPICAL JUNCTION CAPACITANCE



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