

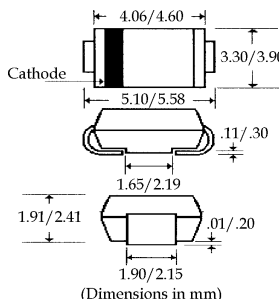
SMB21 ... 210 Series

### Description



### Mechanical Dimensions

DO-214AA (SMB)



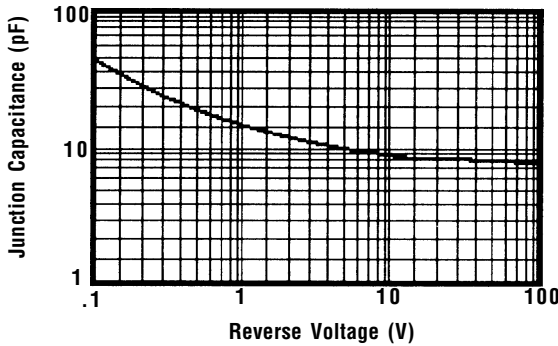
### Features

- LOW COST
- HIGH CURRENT CAPABILITY
- HIGH SURGE CAPABILITY
- LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT
- MEETS UL SPECIFICATION 94V-0

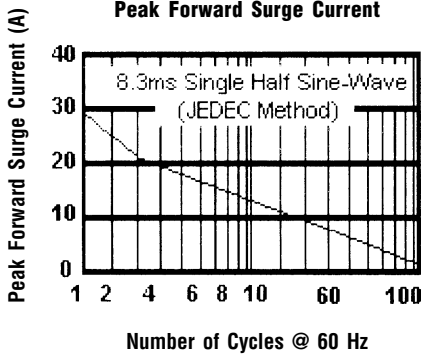
**SMB21 . . . 210 Series**

	SMB21	SMB22	SMB24	SMB26	SMB28	SMB210	Units
<b>Maximum Ratings</b>							
Peak Repetitive Reverse Voltage... $V_{RRM}$	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	70	140	280	420	560	700	Volts
DC Blocking Voltage... $V_{DC}$	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$	2.0						Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$	50						Amps
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 175						°C
<b>Electrical Characteristics</b>							
Maximum Forward Voltage @ 2.0A... $V_F$	1.1						Volts
Maximum Full Load Reverse Current... $I_{R(av)}$	30						μAmps
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	5.0						μAmps
$T_C = 25^\circ C$	50						μAmps
$T_C = 75^\circ C$	50						μAmps
Typical Junction Capacitance... $C_j$ (Note 1)	30						pF

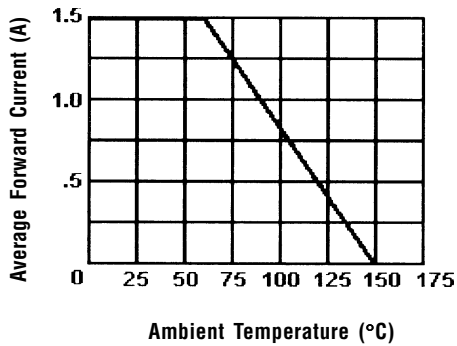
Typical Junction Capacitance



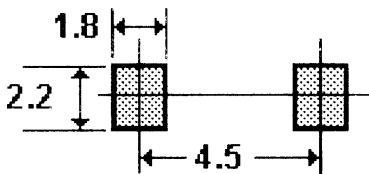
Non-Repetitive  
Peak Forward Surge Current



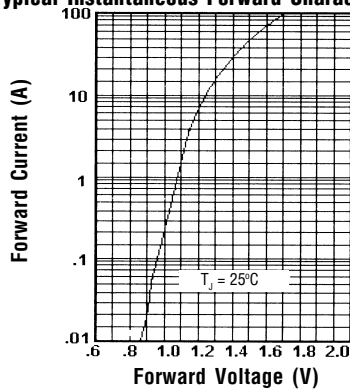
Forward Current Derating Curve



Recommended Soldering Pad Layout



Typical Instantaneous Forward Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

NOTES: 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.