

2.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

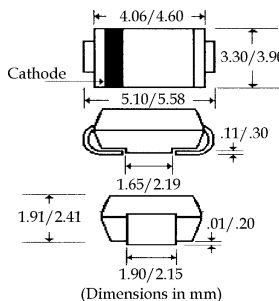
SMB21 ... 210 Series

Description



Mechanical Dimensions

DO-214AA (SMB)

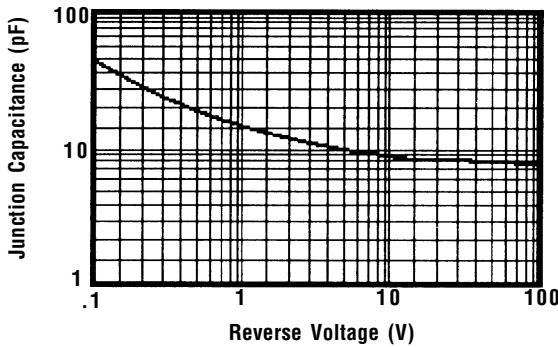


Features

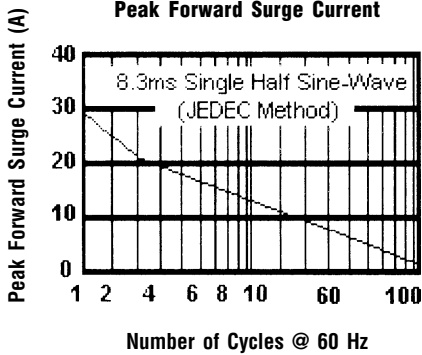
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

SMB21 . . . 210 Series							Units
Maximum Ratings	SMB21	SMB22	SMB24	SMB26	SMB28	SMB210	
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
Electrical Characteristics							
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	$T_C = 25^\circ C$				5.0		μAmps
	$T_C = 75^\circ C$				50		μAmps
Typical Junction Capacitance... C_j (Note 1)	30						pF

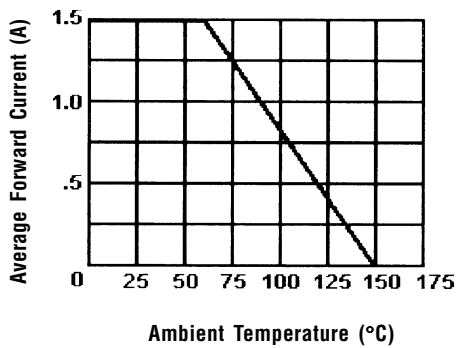
Typical Junction Capacitance



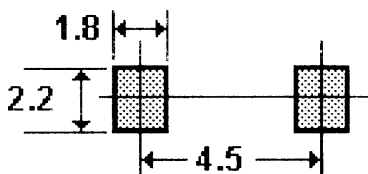
**Non-Repetitive
Peak Forward Surge Current**



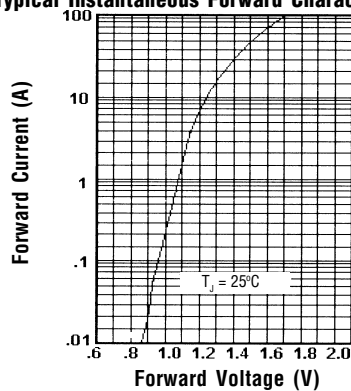
Forward Current Derating Curve



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.