

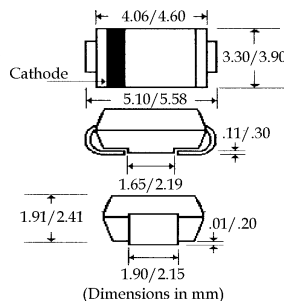
2.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

Description



Mechanical Dimensions

**D0-214AA
(SMB)**

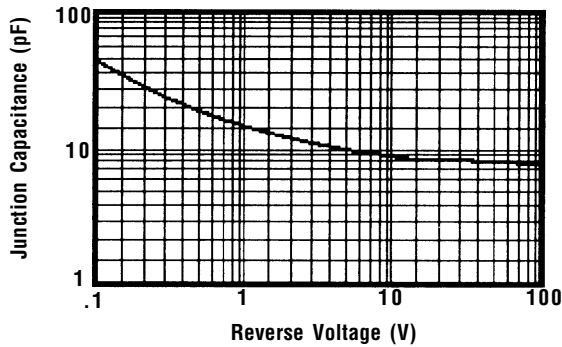


Features

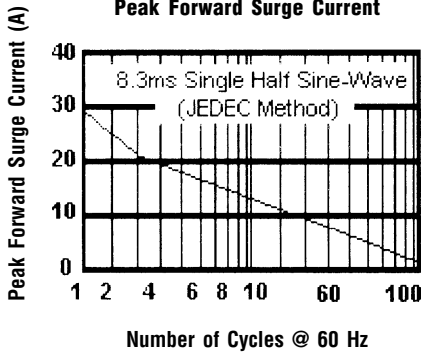
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

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							
$T_C = 25^\circ\text{C}$	5.0						μAmps
$T_C = 75^\circ\text{C}$	50						μAmps
Typical Junction Capacitance... C_j (Note 1)	30						pF

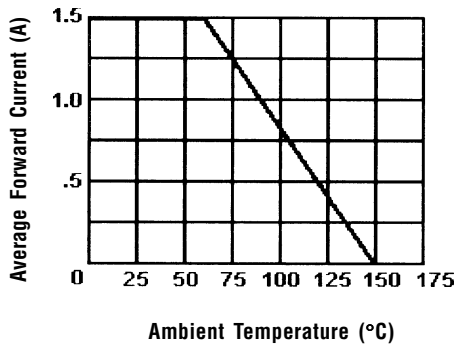
Typical Junction Capacitance



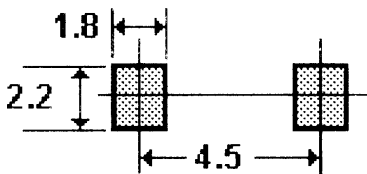
**Non-Repetitive
Peak Forward Surge Current**



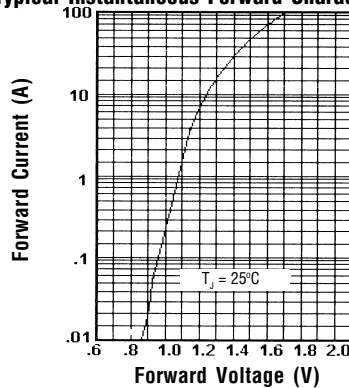
Forward Current Derating Curve



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.