

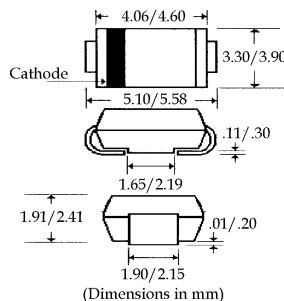
## 2.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

### Description



### Mechanical Dimensions

**D0-214AA  
(SMB)**



### Features

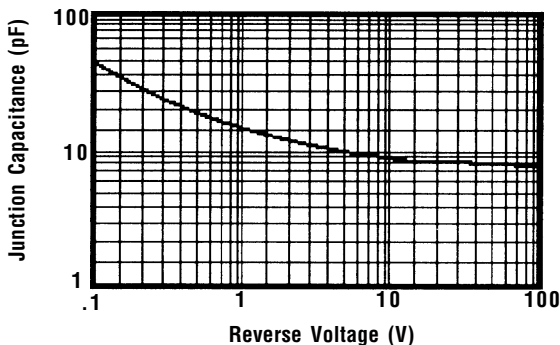
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

SMB21 . . . 210 Series							Units
Maximum Ratings	SMB21	SMB22	SMB24	SMB26	SMB28	SMB210	
Peak Repetitive Reverse Voltage...V <sub>RRM</sub>	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...V <sub>R(rms)</sub>	70	140	280	420	560	700	Volts
DC Blocking Voltage...V <sub>DC</sub>	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...I <sub>F(av)</sub>	2.0						Amps
Non-Repetitive Peak Forward Surge Current...I <sub>FSM</sub>	50						Amps
Operating & Storage Temperature Range...T <sub>J</sub> , T <sub>STRG</sub>	-65 to 175						°C
Electrical Characteristics							
Maximum Forward Voltage @ 2.0A...V <sub>F</sub>	1.1						Volts
Maximum Full Load Reverse Current...I <sub>R</sub> (av)	30						μAmps
Maximum DC Reverse Current...I <sub>R</sub> @ Rated DC Blocking Voltage	T <sub>C</sub> = 25°C	5.0					μAmps
	T <sub>C</sub> = 75°C	50					μAmps
Typical Junction Capacitance...C <sub>J</sub> (Note 1)	30						pF

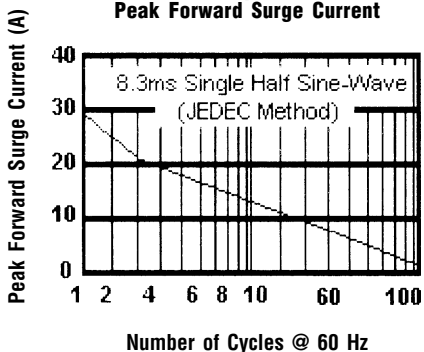
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**SMB21 ... 210 Series**

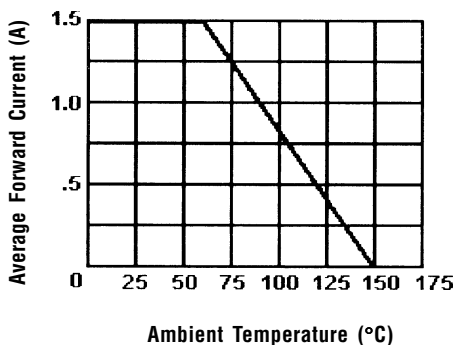
**Typical Junction Capacitance**



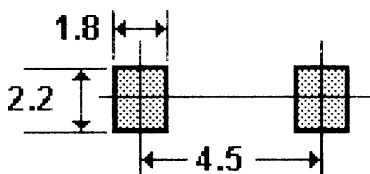
**Non-Repetitive  
Peak Forward Surge Current**



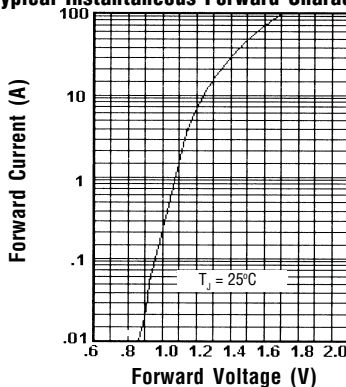
**Forward Current Derating Curve**



**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.