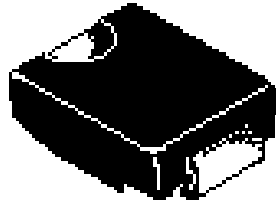


# 2.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

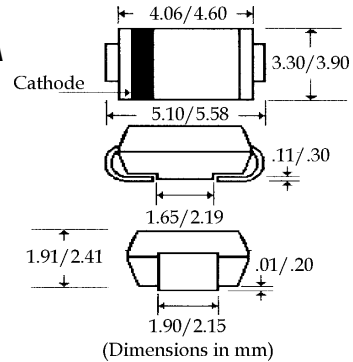
**SMB21 ... 210 Series**

## Description



## Mechanical Dimensions

**DO-214AA  
(SMB)**

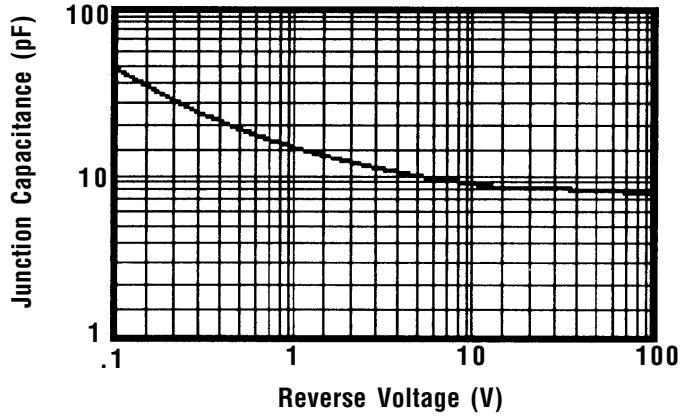


## Features

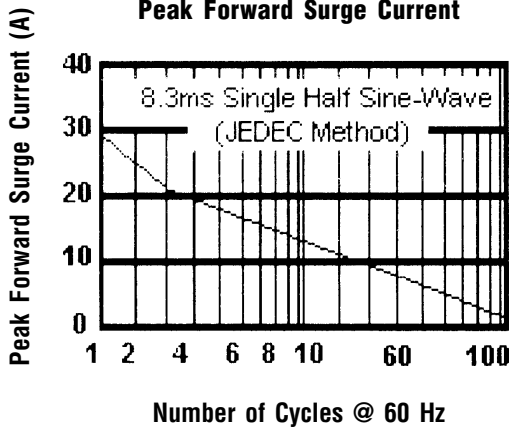
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

<b>SMB21 . . . 210 Series</b>							<b>Units</b>
<b>Maximum Ratings</b>	<b>SMB21</b>	<b>SMB22</b>	<b>SMB24</b>	<b>SMB26</b>	<b>SMB28</b>	<b>SMB210</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
	.....			50	.....		μAmps
Typical Junction Capacitance... $C_j$ (Note 1)	.....			30	.....		pF

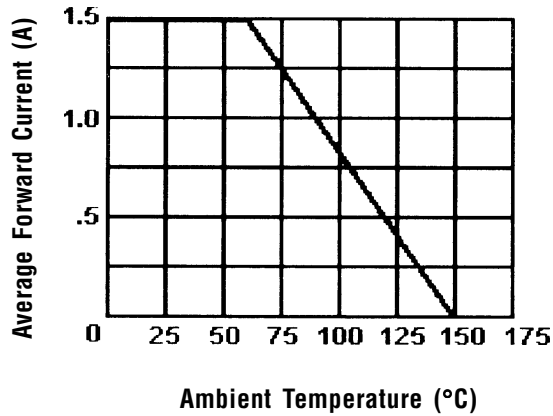
**Typical Junction Capacitance**



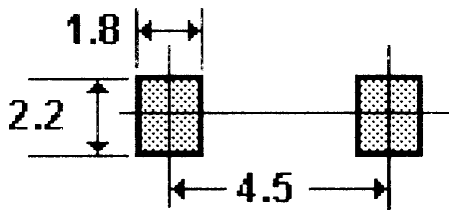
**Non-Repetitive  
Peak Forward Surge Current**



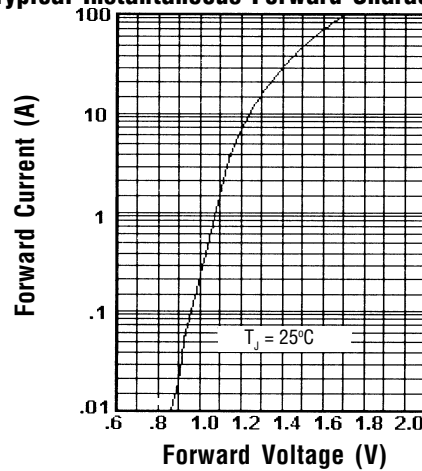
**Forward Current Derating Curve**



**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.