Semiconductor *Data Sheet*

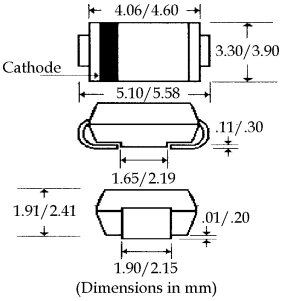
2.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

SMB21 . . . 210 Series

Description

Mechanical Dimensions

DO-214AA (SMB)



(Dimensions in mm)

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°C	..... 5.0						µAmps
T_C = 75°C	..... 50						µAmps
Typical Junction Capacitance...C_J *(Note 1)*	..... 30						pF

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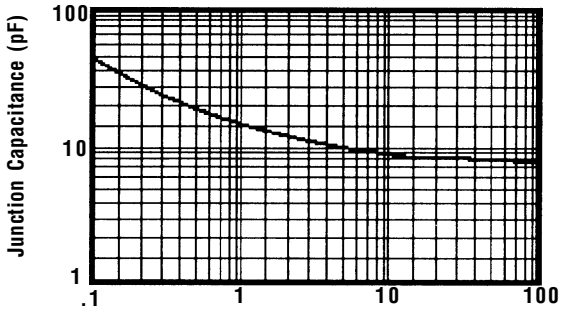
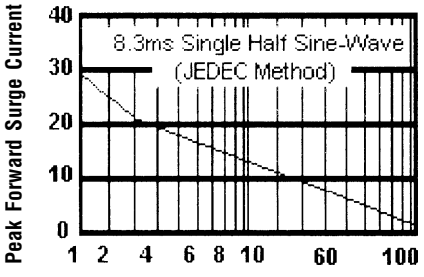
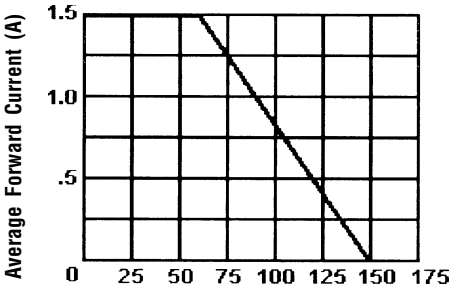
Typical Junction Capacitance



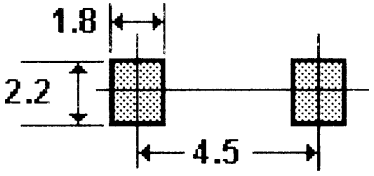
Non-Repetitive Peak Forward Surge Current



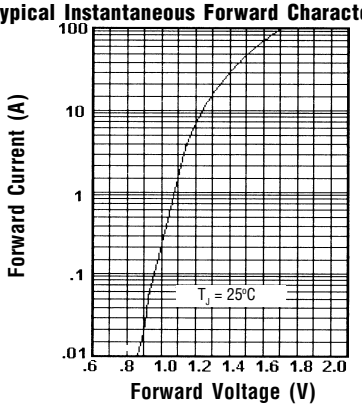
Forward Current Derating Curve



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.