

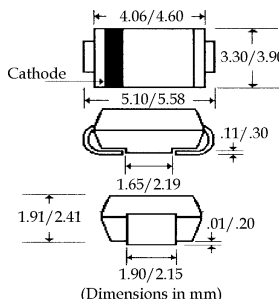
SMB21 ... 210 Series

Description



Mechanical Dimensions

DO-214AA (SMB)



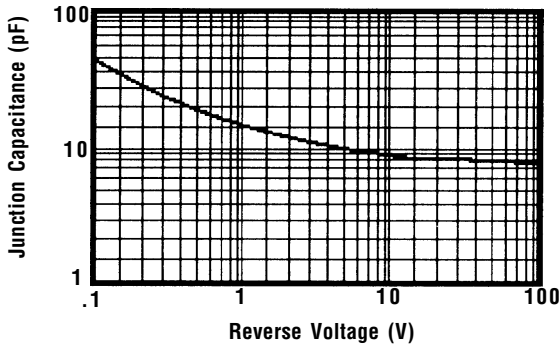
Features

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

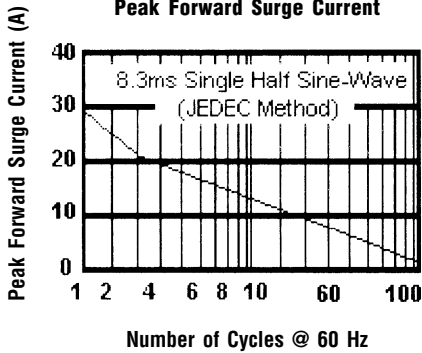
SMB21 . . . 210 Series

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

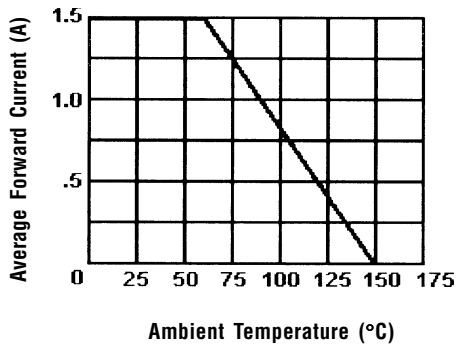
Typical Junction Capacitance



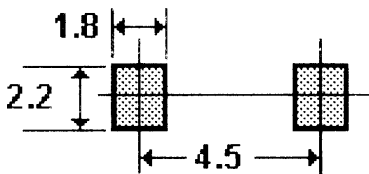
Non-Repetitive Peak Forward Surge Current



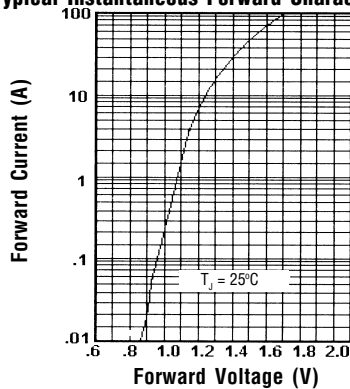
Forward Current Derating Curve



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.