

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

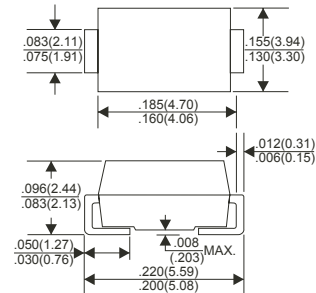
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Reverse Current

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

DO-214AA (SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

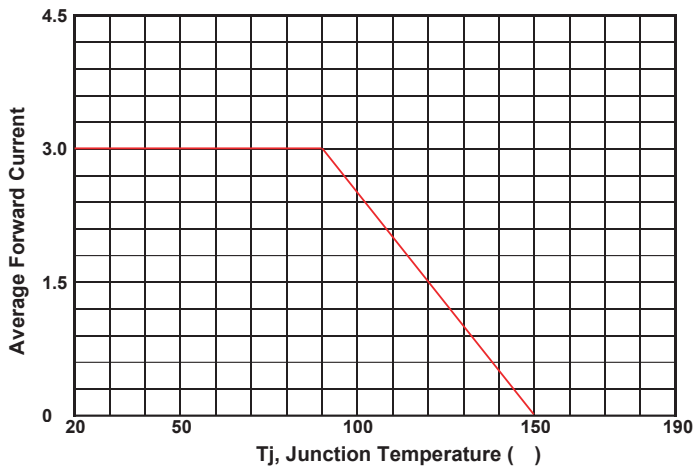
| TYPE NUMBER | SYMBOL | SM3200B | UNITS |
|--|-----------------|-------------|------------------------|
| Peak Repetitive Peak reverse voltage | V_{RRM} | | |
| Working Peak Reverse Voltage | V_{RWM} | 200 | V |
| Maximum DC Blocking Voltage | V_R | | |
| Average Forward Current @ $T_J=25^\circ\text{C}$ | $I_{F(AV)}$ | 3 | A |
| Peak Forward Current @ 8.3 ms Half Sine | I_{FSM} | 90 | A |
| Maximum Instantaneous Forward Voltage | | | |
| $V_F @ I_{FM} = 3.0 \text{ A}, T_A = 25^\circ\text{C}$ | V_F | 0.85 | V |
| $V_F @ I_{FM} = 3.0 \text{ A}, T_A = 75^\circ\text{C}$ | | 0.75 | |
| $V_F @ I_{FM} = 3.0 \text{ A}, T_A = 125^\circ\text{C}$ | | 0.68 | |
| Maximum DC Reverse Current | | | |
| At Rated DC Blocking Voltage @ $T_J = 25^\circ\text{C}$ | I_R | 5 | μA |
| At Rated DC Blocking Voltage @ $T_J = 100^\circ\text{C}$ | | 80 | |
| Typical Junction Capacitance | C_J | 60 | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 50 | $^\circ\text{C/W}$ |
| Voltage Rate of Change (Rated V_R) | dv/dt | 1000 | $\text{V}/\mu\text{s}$ |
| Operating Temperature Range | T_J | -50 ~ + 125 | $^\circ\text{C}$ |
| Storage temperature | T_{STG} | -65 ~ + 150 | $^\circ\text{C}$ |

NOTES:

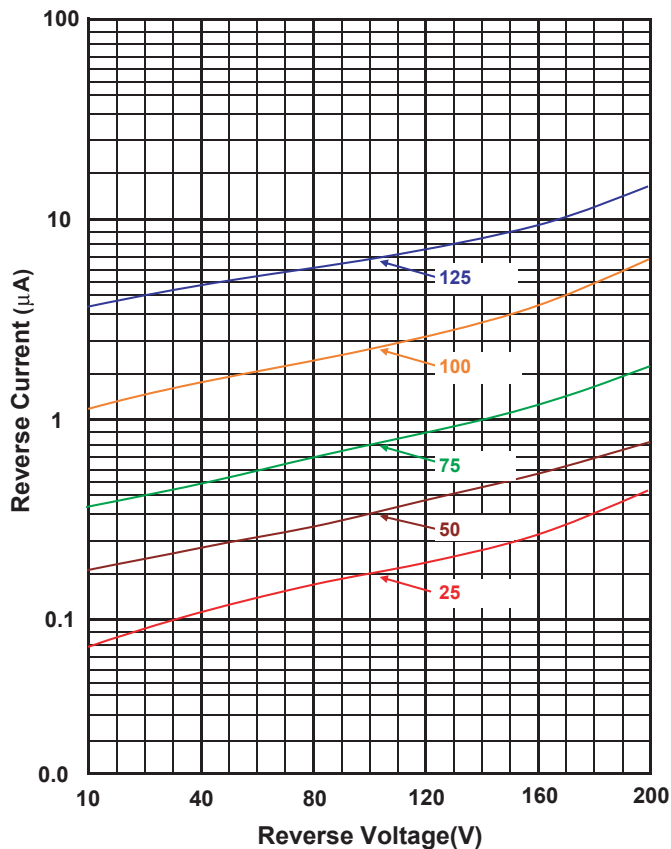
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES

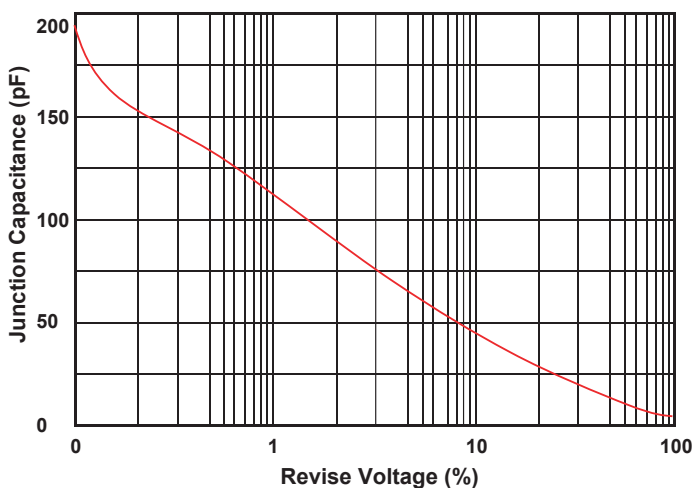
Typical Forward Current Derating Curve



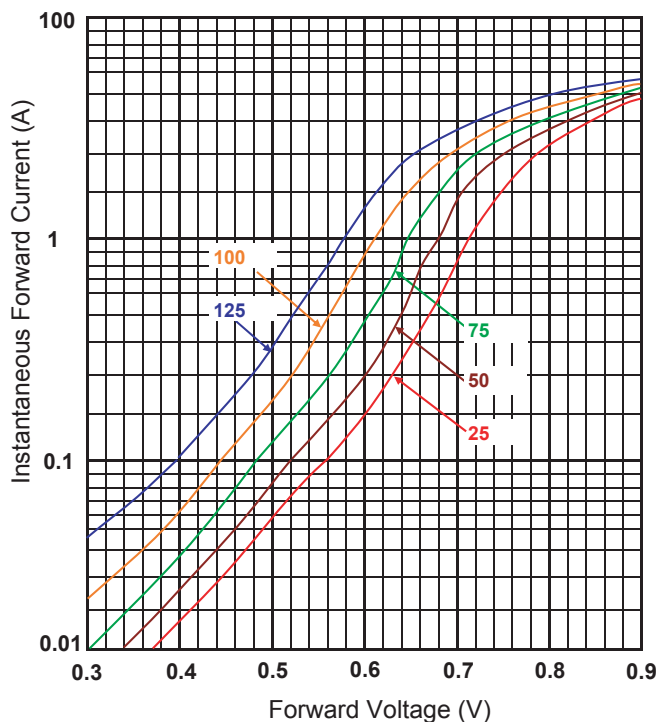
Typical Reverse Characteristic



Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current

