

**Reverse Voltage: 50 to 1000 V**  
**Forward Current: 1.5 A**

**Surface Mount**  
**Fast Recovery Rectifiers**

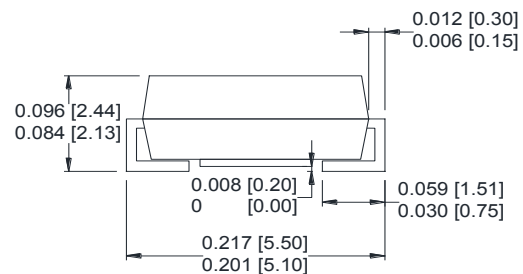
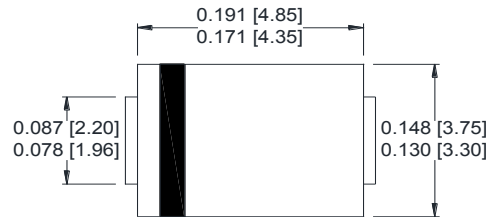
### Features

- Glass passivated chip
- Low forward voltage
- High current capability
- High reliability
- High surge current capability
- RoHS compliant

### Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

SMB/ DO-214AA



Dimensions: inch [mm]

### Maximum Ratings And Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

| Parameter                                                            | Symbol         | RS15A     | RS15B | RS15D | RS15G | RS15J | RS15K | RS15M | Unit             |
|----------------------------------------------------------------------|----------------|-----------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum repetitive peak reverse voltage @ $I_T = 5\mu\text{A}$       | $V_B$          | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum RMS voltage                                                  | $V_R$          | 35        | 70    | 140   | 280   | 420   | 560   | 700   | V                |
| Maximum DC blocking voltage                                          | $V_{DC}$       | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum average forward rectified current @ $T_A = 25^\circ\text{C}$ | $I_F$          | 1.5       |       |       |       |       |       |       | A                |
| Maximum instantaneous forward voltage at specified current           | $V_F$          | 1.3       |       |       |       |       |       |       | V                |
| Maximum DC reverse current                                           | $I_R$          | 5.0       |       |       |       |       |       |       | $\mu\text{A}$    |
| Maximum reverse recovery time <sup>(1)</sup>                         | $T_{rr}$       | 150       |       |       |       | 250   | 500   |       | ns               |
| Operating and storage temperature range                              | $T_J, T_{STG}$ | -55 ~ 150 |       |       |       |       |       |       | $^\circ\text{C}$ |

#### Note:

(1) Reverse recovery test conditions:  $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$  (RG1 circuit)

**Ratings and Characteristics Curves ( $T_A=25^\circ\text{C}$  unless otherwise noted)**

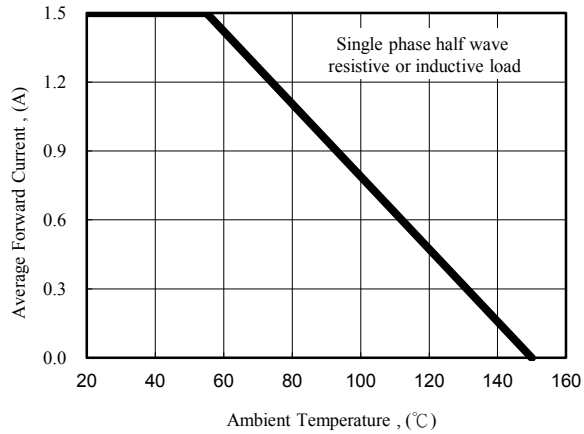


Fig. 1 - Forward Current Derating Curve

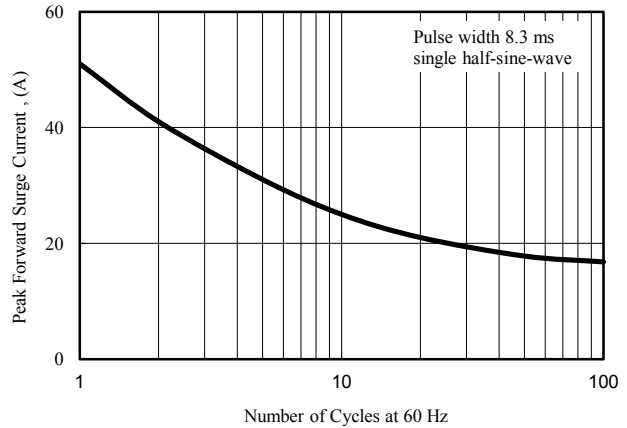


Fig. 2 - Peak Forward Surge Current

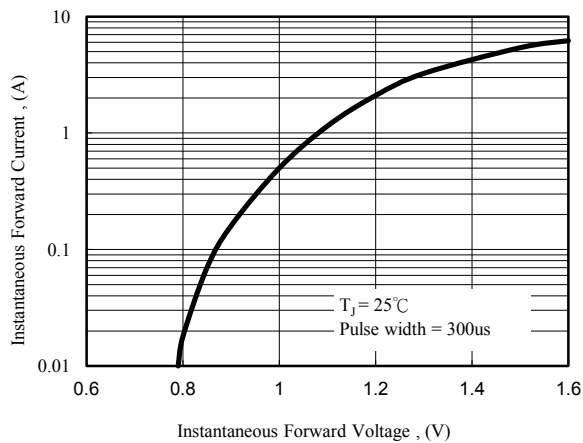


Fig. 3 - Typical Forward Characteristics

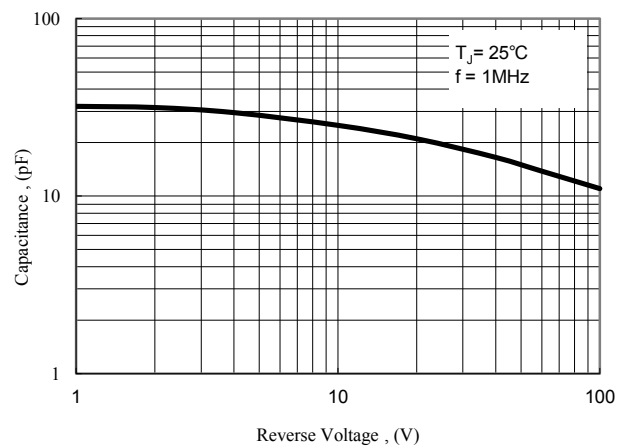


Fig. 4 - Typical Junction Capacitance