

### Features

- Low capacitance
- Cannot be damaged by voltage
- Will not fatigue
- Eliminate voltage overshoot
- Glass passivated junction
- Halogen free and RoHS compliant

### Applications

- CASE: SMBJ(DO-214AA) Molded Plastic
- UL Flammability Classification Rating 94V0
- Mounting Position:Any

### Dimensions and Pin Configuration



### Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

| Parameter                                      | Symbol          | Value      | Units | Remarks   |
|--|-----------------|------------|-------|-----------|
| Peak Pulse Voltage                             | $V_{PP}$        | 6000       | V     | 10/700us  |
| Peak Pulse Current                             | $I_{PP}$        | 100        | A     | 10/1000us |
| Peak Pulse Current                             | $I_{PK}$        | 400        | A     | 8/20us    |
| Peak One-cycle Surge Current                   | $I_{TSM}$       | 30         | A     | 60Hz      |
| Rate of Rise of Current                        | di/dt           | 500        | A/us  |           |
| Typical Thermal Resistance Junction to Lead    | $R_{\theta JL}$ | 20         | °C/W  |           |
| Typical Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 100        | °C/W  |           |
| Operating Temperature Range                    | $T_J$           | -40 to 150 | °C    |           |
| Storage Temperature Range                      | $T_{STG}$       | -55 to 150 | °C    |           |



| Part Number | $s @ 100KV/S$<br>V<br>MAX | $I_{S\_LMT}$<br>mA | $V_T @ I_T$<br>V<br>MAX | $I_T$<br>A | $I_D @ V_D$<br>uA<br>MAX | $V_D$<br>V | $C_{O@1MHz,2V_{DC}}$<br>pF<br>TYP | $I_H$<br>mA<br>MIN |
|-------------|---------------------------|--------------------|-------------------------|------------|--------------------------|------------|-----------------------------------|--------------------|
| P0080SC     | 25                        | 500                | 4                       | 2.2        | 5                        | 6          | 105                               | 40                 |
| P0220SC     | 30                        | 500                | 4                       | 2.2        | 5                        | 15         | 105                               | 40                 |
| P0300SC     | 40                        | 500                | 4                       | 2.2        | 5                        | 25         | 100                               | 40                 |
| P0640SC     | 77                        | 800                | 4                       | 2.2        | 5                        | 58         | 95                                | 120                |
| P0720SC     | 88                        | 800                | 4                       | 2.2        | 5                        | 65         | 95                                | 120                |
| P0900SC     | 98                        | 800                | 4                       | 2.2        | 5                        | 75         | 95                                | 120                |
| P1100SC     | 130                       | 800                | 4                       | 2.2        | 5                        | 90         | 90                                | 120                |
| P1300SC     | 160                       | 800                | 4                       | 2.2        | 5                        | 120        | 90                                | 120                |
| P1500SC     | 180                       | 800                | 4                       | 2.2        | 5                        | 140        | 85                                | 120                |
| P1800SC     | 220                       | 800                | 4                       | 2.2        | 5                        | 170        | 80                                | 120                |
| P2300SC     | 260                       | 800                | 4                       | 2.2        | 5                        | 190        | 75                                | 120                |
| P2600SC     | 300                       | 800                | 4                       | 2.2        | 5                        | 220        | 70                                | 120                |
| P3100SC     | 350                       | 800                | 4                       | 2.2        | 5                        | 275        | 65                                | 120                |
| P3500SC     | 400                       | 800                | 4                       | 2.2        | 5                        | 320        | 60                                | 120                |
| P4500SC     | 550                       | 800                | 4                       | 2.2        | 5                        | 400        | 45                                | 120                |

**Typical Performance Characteristics (TA=25°C unless otherwise Specified)**

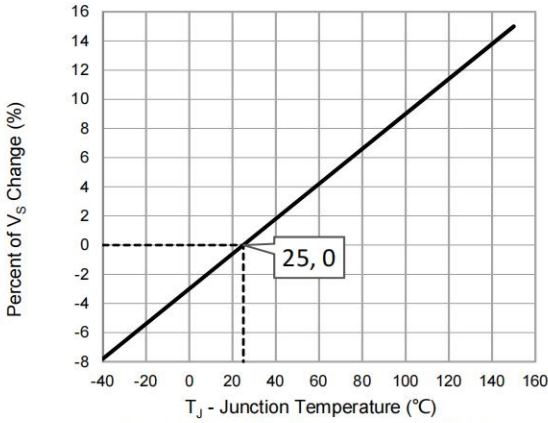


Fig. 1 - Peak Pulse Current Rating

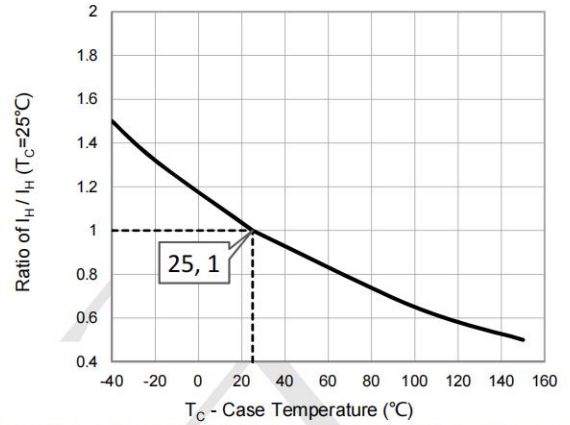


Fig. 2 - Normalized DC Holding Current vs. Case Temperature

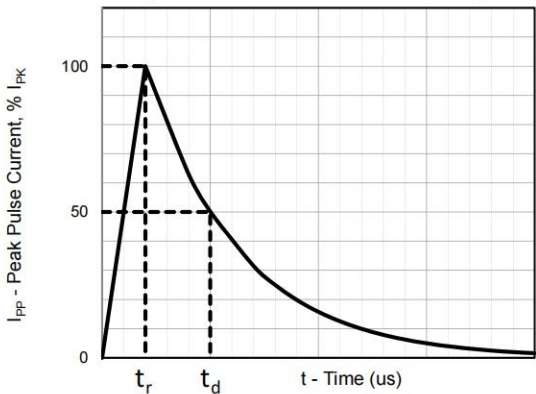


Fig. 3 - tr/td us Pulse Waveform

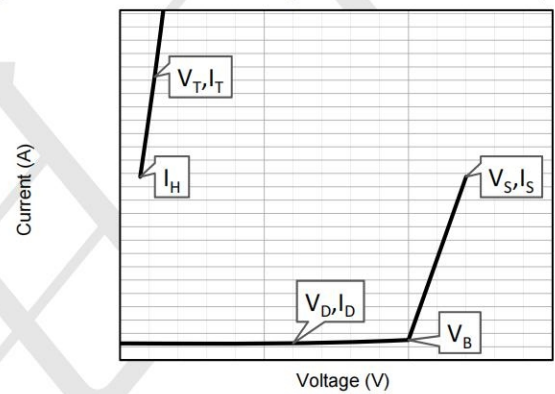


Fig. 4 - VI Curve

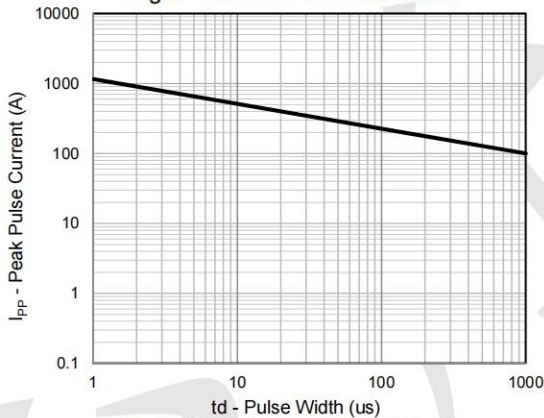


Fig. 5 - Peak Pulse Current Rating

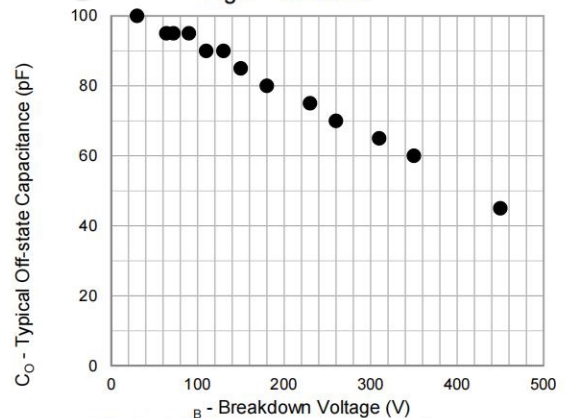
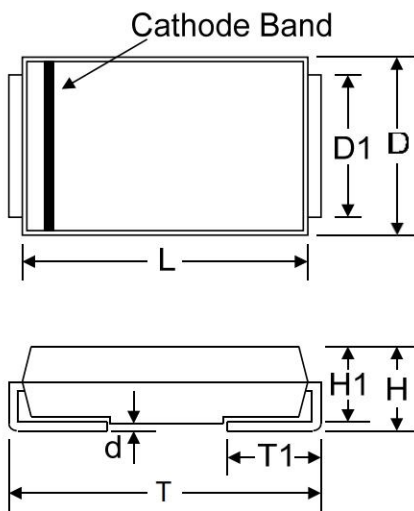


Fig. 6 - Typical Off-state Capacitance

**Package Outline Dimensions: SMB(DO-214AA)**

| Dim | Millimeters |      | Inches |       |
|-----|-------------|------|--------|-------|
|     | Min         | Max  | Min    | Max   |
| L   | 4.4         | 4.6  | 0.173  | 0.181 |
| D   | 3.5         | 3.7  | 0.138  | 0.146 |
| D1  | 1.9         | 2.1  | 0.075  | 0.083 |
| T   | 5.1         | 5.48 | 0.201  | 0.216 |
| T1  | 1.0         | 1.6  | 0.039  | 0.063 |
| d   | -           | 0.2  | -      | 0.008 |
| H   | 2.2         | 2.45 | 0.087  | 0.096 |
| H1  | 2.15        | 2.35 | 0.085  | 0.093 |



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