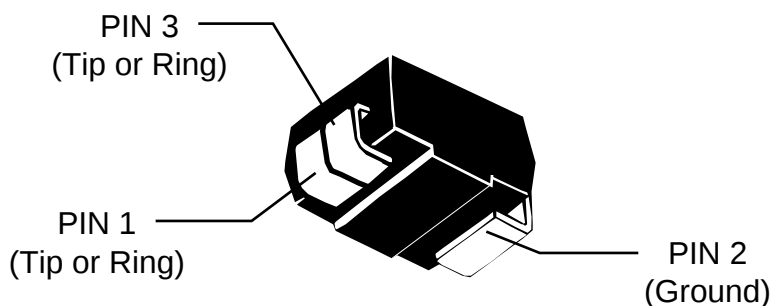




**COMPAK  
Modified DO-214AA**

**SIDACtor**<sup>®</sup>  
Solid State Overvoltage Protection

**Preliminary  
P3002CB  
Data Sheet**

### **Features**

- Bidirectional transient voltage protection
- Clamping speed of nanoseconds
- Surge current capability 100A, 10x560 $\mu$ s
- Glass passivated junctions for superior reliability
- Utilizes patented ion implant technology for superior surge performance

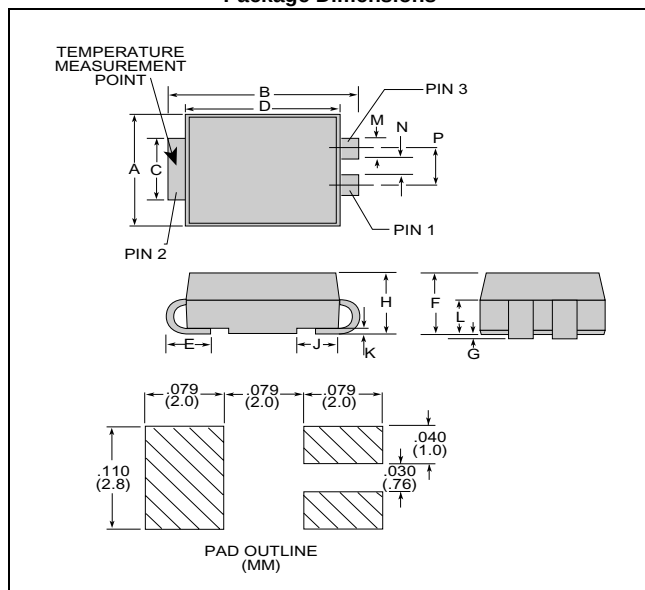


# Electrical Specifications

# Preliminary P3002CB

| Parameters | Description                      | Test Conditions       | Values<br>Pins 3-2, 1-2 | Values<br>Pins 1-3 | Units   |
|------------|----------------------------------|-----------------------|-------------------------|--------------------|---------|
| $V_{DRM}$  | Maximum Blocking Voltage         | Measured at $I_{DRM}$ | 140                     | 280                | V       |
| $V_S$      | Maximum Switching Voltage        | 60Hz                  | 180                     | 360                | V       |
| $V_T$      | Maximum On-State Voltage         | Measured at $I_T$     | 5                       | 5                  | V       |
| $I_{DRM}$  | Maximum Leakage Current          | Measured at $V_{DRM}$ | 5                       | 5                  | $\mu A$ |
| $I_S$      | Maximum Switching Current        | @25°C                 | 800                     | 800                | mA      |
| $I_T$      | Continuous On-State Current      | Measured at $V_T$     | 1                       | 1                  | A       |
| $I_{PP}$   | Maximum Rated Peak Pulse Current | 10x560 $\mu s$        | 100                     | 100                | A       |
| $I_H$      | Minimum Holding Current          | @ 25°C                | 120                     | 120                | mA      |
| $C_O$      | Typical Off-State Capacitance    | 2V <sub>DC</sub> BIAS | 30                      | 15                 | pF      |

## Package Dimensions



| Dimension | Millimeters |      |
|-----------|-------------|------|
|           | Min         | Max  |
| A         | 3.56        | 3.94 |
| B         | 5.21        | 5.59 |
| C         | 1.96        | 2.11 |
| D         | 4.22        | 4.57 |
| E         | 0.91        | 1.42 |
| F         | 1.85        | 2.11 |
| G         | 0.10        | 0.20 |
| H         | 2.08        | 2.39 |
| J         | 1.09        | 1.35 |
| K         | 0.20        | 0.30 |
| L         | 0.99        | 1.24 |
| M         | 0.56        | 0.71 |
| N         | 0.69        | 0.84 |
| P         | 1.32        | 1.47 |

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Please contact the factory for further information.

Data Sheet: P3002CB - 1200

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4,905,119 - 5,479,031 - 5,516,705

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