The 022685 Series from Siemens Mobility provides advanced high speed, high current silicon surge protection for railroad circuits. Designed for standard AAR terminals the 022685 is field tested and proven to increase railroad signaling systems performance, decrease maintenance costs and improve profitability.

**Features**
- Very Low-Voltage Protection Levels
- Meets AREMA Guidelines for Primary Surge Protection
- Compact AAR Terminal Installation
- Fusing for Safe-Fail in Case of Self-Sacrifice
- Status Indication
- Bidirectional Device
### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>022685 DUAL DIODE</th>
<th>022685 HYBRID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Silicon (SASD) w/ thermal fuse disconnect</td>
<td>Hybrid Silicon &amp; Gas Discharge Tube (SASD &amp; GDT)</td>
</tr>
<tr>
<td><strong>Nominal Voltage</strong></td>
<td>50 VDC</td>
<td>12 VDC, 12 Vac</td>
</tr>
<tr>
<td><strong>MCOV</strong></td>
<td>55 VDC</td>
<td>55 VDC, 35 Vac</td>
</tr>
<tr>
<td><strong>Voltage Protection Level @ 3 kA 8/20 µs</strong></td>
<td>140 V @ 3 kA 8/20 µs</td>
<td>195 V @ 3 kA 8/20 µs</td>
</tr>
<tr>
<td><strong>Voltage Protection Level @ 20 kA 8/20 µs</strong></td>
<td>180 V @ 20 kA 8/20 µs</td>
<td>290 V @ 20 kA 8/20 µs</td>
</tr>
<tr>
<td><strong>Leakage Current</strong></td>
<td>20 μA @ 50 VDC</td>
<td>≤10 μA @ 50 Vd</td>
</tr>
<tr>
<td><strong>Status Indication</strong></td>
<td>Spring release indicator</td>
<td>Paper indicator</td>
</tr>
<tr>
<td><strong>Bidirectional</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Indoor</td>
<td>Indoor</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>AAR Rail Terminal Block</td>
<td>AAR Rail Terminal Block</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.3 lb</td>
<td>0.1 lb</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>2.86&quot; x 0.95&quot; x 2.17&quot;</td>
<td>2.83&quot; x 0.95&quot; x 2.10&quot;</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40 °C to +85 °C</td>
<td>-40 °C to +75 °C</td>
</tr>
</tbody>
</table>