## Features
- 5 mm diameter, 4 mm long (2035 series)
- 5 mm diameter, 5 mm long (2037 series)
- UL Recognized
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant* versions available

## Characteristics

### Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2035/2037-09</td>
</tr>
<tr>
<td>DC Sparkover ±15 %</td>
<td>90 V</td>
</tr>
<tr>
<td>(+20 % for Model 2035/2037-09) @ 100 V/s</td>
<td></td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td>300 V</td>
</tr>
<tr>
<td>100 V/μs</td>
<td>350 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td>550 V</td>
</tr>
</tbody>
</table>

### Additional Information

- Click these links for more information:
  - PRODUCT SELECTOR
  - TECHNICAL LIBRARY
  - INVENTORY
  - SAMPLES
  - CONTACT

#### Insulation Resistance (IR)
- 100 V (50 V for Models 2035/2037-09)
- \( > 10^{10} \Omega \)

#### Glow Voltage
- 10 mA
- \(~ 70 \text{ V}~\)

#### Arc Voltage
- 1 A
- \(~ 10 \text{ V}~\)

#### Glow-Arc Transition Current
- \(< 0.5 \text{ A}~\)

#### Capacitance
- \(~ 1 \text{ MHz}~\)
- \(< 1 \text{ pF}~\)

#### DC Holdover Voltage (2)
- 135 V, (52 V for Models 2035/2037-09), \(~ < 150 \text{ ms}~\)
- 80 V for Models 2035/2037-15

#### Impulse Discharge Current (3)
- 10000 A, 8/20 μs
- 1 operation min.
- 5000 A, 8/20 μs
- \( > 10 \text{ operations}~\)
- 1000 A, 10/350 μs
- 1 operation
- 100 A, 10/1000 μs
- \( > 300 \text{ operations}~\)
- 100 A, 10/700 μs
- \( > 500 \text{ operations}~\)

#### Alternating Discharge Current
- 20 Arms, 11 cycles
- 1 operation min.
- 5 Arms, 1 s
- \( > 10 \text{ operations}~\)

#### Operating Temperature
- \(-55 \text{ to } +85 \text{ °C}~\)

#### Climatic Category (IEC 60068-1)
- 40/90/21

### Notes:
- UL recognized component, UL File E153537.
- Model number marking on tube: xxxV.
- Sparkover limits after life \(±20 \% \) (\( -25 \% \), \( +30 \% \) for Models 2035/2037-09 and 2035/2037-60), \( IR > 10^8 \Omega \).
- Other DC sparkover ranges available on request.
- At delivery AQL 0.65 Level II, DIN ISO 2859.

(1) Impulse Sparkover voltage is defined as typical values of distribution.

(2) Network applied.

(3) DC Sparkover may exceed \(±20 \% \) but will continue to protect without venting.
Applications
- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

2035/2037 Series - Miniature 2-Pole Gas Discharge Tube

Product Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>2035-XX-A</th>
<th>2037-XX-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIA.</td>
<td>5.0 ± 0.3</td>
<td>4.9 ± 0.3</td>
</tr>
<tr>
<td>( .197 ± .012)</td>
<td>( .193 ± .012)</td>
<td></td>
</tr>
<tr>
<td>27.3 ± 0.4</td>
<td>27.3 ± 0.4</td>
<td></td>
</tr>
<tr>
<td>(1.075 ± .016)</td>
<td>(1.075 ± .016)</td>
<td></td>
</tr>
<tr>
<td>LONG</td>
<td>LONG</td>
<td></td>
</tr>
<tr>
<td>2 PLCS.</td>
<td>2 PLCS.</td>
<td></td>
</tr>
</tbody>
</table>

2035-xx-B5 not available in reel pack.

Packaging Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>2035-XX-B</th>
<th>2037-XX-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIA.</td>
<td>5.0 ± 0.3</td>
<td>4.9 ± 0.3</td>
</tr>
<tr>
<td>( .197 ± .012)</td>
<td>( .193 ± .012)</td>
<td></td>
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<td>LONG</td>
<td></td>
</tr>
<tr>
<td>2 PLCS.</td>
<td>2 PLCS.</td>
<td></td>
</tr>
</tbody>
</table>

2037-xx-B5 not available in reel pack.

How to Order

<table>
<thead>
<tr>
<th>Model Number Designator</th>
<th>2035/37 - xx - x (n) T1 LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (Divided by 10)</td>
<td></td>
</tr>
<tr>
<td>09 = 90 V</td>
<td>25 = 250 V</td>
</tr>
<tr>
<td>15 = 150 V</td>
<td>42 = 420 V</td>
</tr>
<tr>
<td>20 = 200 V</td>
<td>47 = 470 V</td>
</tr>
<tr>
<td>23 = 230 V</td>
<td>60 = 600 V</td>
</tr>
<tr>
<td>Leads</td>
<td></td>
</tr>
<tr>
<td>A = None</td>
<td>B = 0.8 mm</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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