Features

- Compact size: 5.5 mm diameter, 6 mm length
- Low capacitance
- Low leakage
- RoHS compliant*
- UL Recognized

Additional Information

Click these links for more information:

PRODUCT SELECTOR  TECHNICAL LIBRARY  INVENTORY  SAMPLES  CONTACT

2057 Series - Light Duty 2-Electrode Miniature Gas Discharge Tube

Characteristics

Test Methods per ITU-T K.12 and IEC 61643-311.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>2057-07</th>
<th>2057-09</th>
<th>2057-12</th>
<th>2057-13</th>
<th>2057-15</th>
<th>2057-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Sparkover ±20 % @ 100 V/s</td>
<td>75 V</td>
<td>90 V</td>
<td>120 V</td>
<td>130 V</td>
<td>150 V</td>
<td>230 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt;700 V</td>
<td>&lt;600 V</td>
<td>&lt;600 V</td>
<td>&lt;600 V</td>
<td>&lt;600 V</td>
<td>&lt;600 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td>&lt;800 V</td>
<td>&lt;700 V</td>
<td>&lt;700 V</td>
<td>&lt;700 V</td>
<td>&lt;700 V</td>
<td>&lt;700 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>2057-25</th>
<th>2057-30</th>
<th>2057-35</th>
<th>2057-40</th>
<th>2057-47</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Sparkover ±20 % @ 100 V/s</td>
<td>250 V</td>
<td>300 V</td>
<td>350 V</td>
<td>400 V</td>
<td>470 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt;600 V</td>
<td>&lt;700 V</td>
<td>&lt;700 V</td>
<td>&lt;800 V</td>
<td>&lt;900 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td>&lt;700 V</td>
<td>&lt;900 V</td>
<td>&lt;900 V</td>
<td>&lt;1000 V</td>
<td>&lt;1100 V</td>
</tr>
</tbody>
</table>

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

Insulation Resistance (IR) (2)..............................................50 / 100 / 250 Vdc .........................................................> 1 GΩ
Glow Voltage .............................................................................10 mA ..............................................................................~ 70 V
Arc Voltage .............................................................................1 A ..............................................................................~ 10 V
Glow-Arc Transition Current ..................................................< 1 A
Maximum Capacitance .........................................................1 MHz ..............................................................................< 1 pF
Maximum Impulse Discharge Current .....................................10,000 A, 8/20 μs .....................................................1 operation
Nominal Alternating Discharge Current ....................................5 A, 50 Hz, 1 second .....................................................1 operation
Arc Impulse Life ......................................................................15 A, 9 cycles .....................................................1 operation
DC Holdover Voltage (3).........................................................< 150 ms
Operating Temperature .................................................................~40 to +90 °C
Storage Temperature .................................................................~40 to +90 °C
Climatic Category (IEC 60068-1)..................................................40 / 90 / 21

Notes:
- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859

(2) DC Sparkover Voltage  DC Measuring Voltage
75–90 V  50 V
120–400 V  100 V
470 V  250 V

(3) Network Applied  DC Holdover Voltage
75–145 V  52 V
230–250 V  80 V
300–470 V  150 V

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Users should verify actual device performance in their specific applications.
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WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

www.P65Warnings.ca.gov
Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2057 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

Product Dimensions

![Diagram of product dimensions]

Packaging Specifications

Model 2057 ships standard bulk, 100 pcs. per tray; 5 trays per box (500 units). The optional reelpack (-BT1) contains 500 pcs. per reel; 2 reels per box (1K units).

How to Order

2057 - xx - B T1 LF

Model Number Designator
Voltage (Divided by 10)
07 = 75 V 25 = 250 V
09 = 90 V 30 = 300 V
12 = 120 V 35 = 350 V
13 = 130 V 40 = 400 V
15 = 150 V 47 = 470 V
23 = 230 V

Leads
B = 0.8 mm

Packaging
(Blank) = Bulk Packaging (Standard)
T1 = Reelpack (Optional)

RoHS Compliancy
LF = RoHS Compliant Product

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