

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

Additional Information

Click these links for more information:



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

Characteristics

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

| Characteristic | Model No. | | | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2035-2037-09 | 2035/2037-15 | 2035/2037-20 | 2035/2037-23 | 2035/2037-25 | 2035/2037-30 |
| DC Sparkover $\pm 15\%$ ($\pm 20\%$ for Model 2035/2037-09) @ 100 V/s | 90 V | 150 V | 200 V | 230 V | 250 V | 300V |
| Impulse Sparkover ⁽¹⁾ | | | | | | |
| 100 V/ μ s | 300 V | 350 V | 425 V | 450 V | 475 V | 525 V |
| 1000 V/ μ s | 550 V | 550 V | 575 V | 600 V | 625 V | 650 V |

| Characteristic | Model No. | | | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
| | 2035/2037-35 | 2035/2037-40 | 2035/2037-42 | 2035/2037-47 | 2035/2037-60 |
| DC Sparkover $\pm 15\%$ @ 100 V/s | 350 V | 400 V | 420 V | 470 V | 600 V |
| Impulse Sparkover ⁽¹⁾ | | | | | |
| 100 V/ μ s | 600 V | 650 V | 675 V | 750 V | 950 V |
| 1000 V/ μ s | 750 V | 800 V | 850 V | 950 V | 1100 V |

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

| | | |
|--|--|--------------------|
| Insulation Resistance (IR) | 100 V (50 V for Models 2035/2037-09) | $> 10^{10} \Omega$ |
| Glow Voltage | 10 mA | ~ 70 V |
| Arc Voltage | 1 A | ~ 10 V |
| Glow-Arc Transition Current | | < 0.5 A |
| Capacitance | 1 MHz | < 1 pF |
| DC Holdover Voltage ⁽²⁾ | 135 V, (52 V for Models 2035/2037-09, 80 V for Models 2035/2037-15) | < 150 ms |
| Impulse Discharge Current | 10000 A, 8/20 μ s ⁽³⁾ | 1 operation min. |
| | 5000 A, 8/20 μ s | > 10 operations |
| | 1000 A, 10/350 μ s | 1 operation |
| | 100 A, 10/1000 μ s | > 300 operations |
| | 100 A, 10/700 μ s | > 500 operations |
| Alternating Discharge Current | 20 Arms, 11 cycles ⁽³⁾ | 1 operation min. |
| | 5 Arms, 1 s | > 10 operations |
| Operating Temperature | | -55 to +85 °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 $\pm 20\%$ (-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.

⁽²⁾ Network applied.

⁽³⁾ DC Sparkover may exceed $\pm 20\%$ but will continue to protect without venting.



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

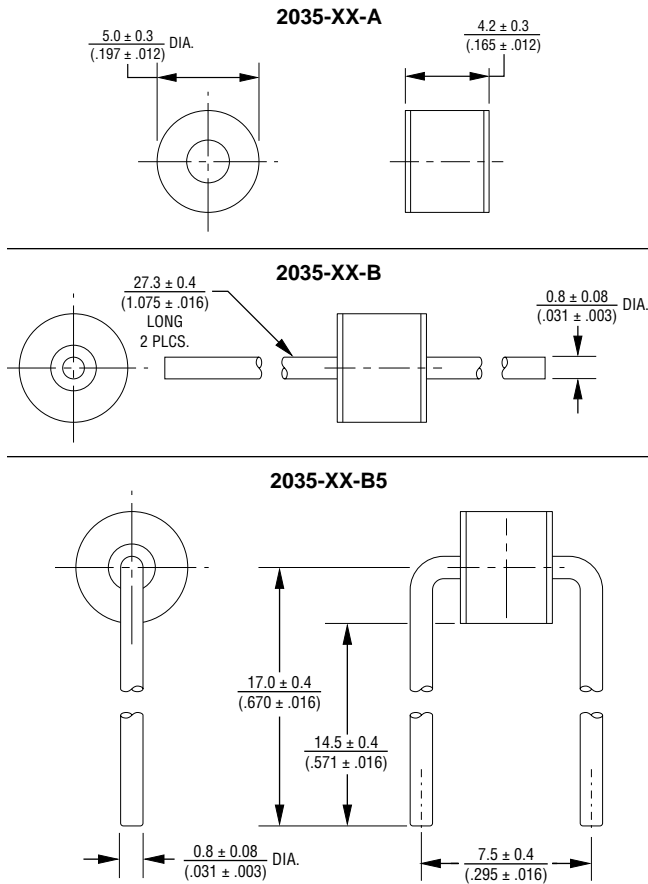
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Applications

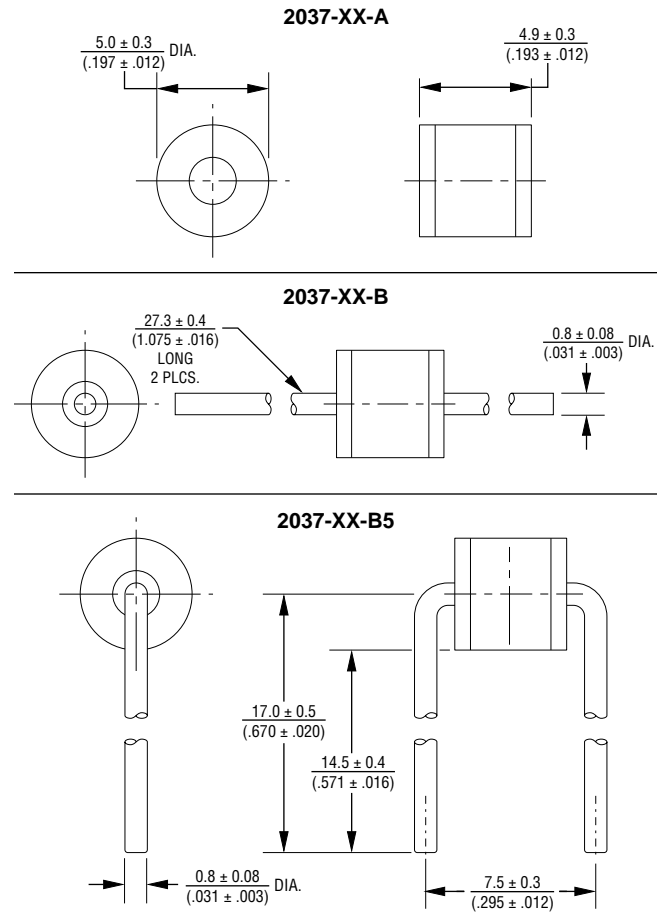
- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

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Product Dimensions

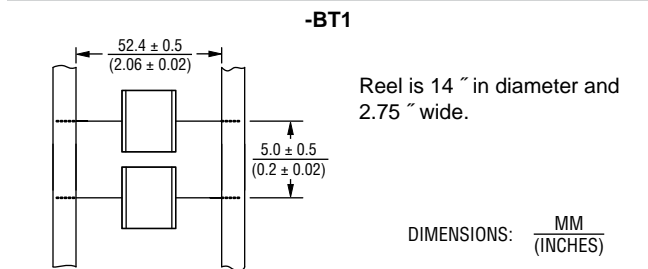


2035-xx-B5 not available in reel pack.



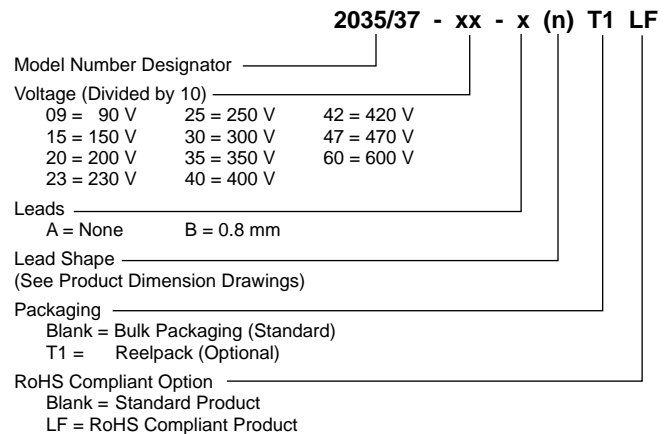
2037-xx-B5 not available in reel pack.

Packaging Specifications



| Model | Standard Packaging Quantity | | | |
|------------------|-----------------------------|------|------|------|
| | Bulk (Bag) | Tray | Box | Reel |
| 2035/2037-XX-A | 250 | | 1000 | |
| 2035/2037-XX-B | 100 | | 700 | |
| 2035/2037-XX-B5 | 250 | | 1000 | |
| 2035/2037-XX-BT1 | | | | 1000 |

How to Order



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Users should verify actual device performance in their specific applications.

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