



## Features

- Balanced TRIGARD®
- Approximately 8 mm diameter, 11 mm long
- UL Recognized ®
- Custom configurations available
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant\* version available

## Applications

- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics
- Automotive, aircraft, military electronics

## 2026 Series - 3-Pole Gas Discharge Tube

### Characteristics

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

| Characteristic                                   | Model No.       |         |         |         |         |         |         |
|--|-----------------|---------|---------|---------|---------|---------|---------|
|  | 2026-07         | 2026-09 | 2026-15 | 2026-20 | 2026-23 | 2026-25 | 2026-26 |
| DC Sparkover $\pm 20\%$ @ 100 V/s <sup>(1)</sup> | 75 V            | 90 V    | 150 V   | 200 V   | 230 V   | 250 V   | 260 V   |
| Impulse Sparkover <sup>(2)</sup>                 | 100 V/ $\mu$ s  | 275 V   | 275 V   | 350 V   | 425 V   | 450 V   | 475 V   |
|  | 1000 V/ $\mu$ s | 700 V   | 600 V   | 575 V   | 625 V   | 650 V   | 700 V   |

| Characteristic                                   | Model No.       |         |         |         |         |         |
|--|-----------------|---------|---------|---------|---------|---------|
|  | 2026-30         | 2026-35 | 2026-40 | 2026-42 | 2026-47 | 2026-60 |
| DC Sparkover $\pm 20\%$ @ 100 V/s <sup>(1)</sup> | 300 V           | 350 V   | 400 V   | 420 V   | 470 V   | 600 V   |
| Impulse Sparkover <sup>(2)</sup>                 | 100 V/ $\mu$ s  | 550 V   | 625 V   | 675 V   | 725 V   | 800 V   |
|  | 1000 V/ $\mu$ s | 775 V   | 875 V   | 925 V   | 1000 V  | 1100 V  |

<sup>(1)</sup> In ionized mode.

<sup>(2)</sup> Impulse Sparkover voltage is defined as typical values of distribution.

|  |   |                     |
|--|---|---------------------|
| Impulse Transverse Delay.....            | 1000 V/ $\mu$ s.....                            | < 75 ns             |
| Insulation Resistance.....               | 100 V (50 V for Model 2026-07 & 2026-09).....   | > $10^{10} \Omega$  |
| Glow Voltage.....                        | 10 mA.....                                      | ~ 70 V              |
| Arc Voltage.....                         | 1A.....   | ~ 10 V              |
| Glow-Arc Transition Current.....         |   | < 0.5 A             |
| Capacitance.....                         | 1 MHz.....                                      | < 2 pF              |
| DC Holdover Voltage <sup>(3)</sup> ..... | >135 V, (52 V for Model 2026-07 & 2026-09,..... | < 150 ms            |
| Impulse Discharge Current.....           | 20000 A, 8/20 $\mu$ s.....                      | 10 operations       |
|  | 5000 A, 10/350 $\mu$ s.....                     | 1 operation         |
|  | 1000 A, 10/1000 $\mu$ s.....                    | 400 operations      |
| Alternating Discharge Current.....       | 130 Arms, 11 cycles <sup>(4)</sup> .....        | 1 operation minimum |
|  | 20 Arms, 1 s.....                               | 10 operations       |
| Operation and Storage Temperature.....   |   | -40 to +90 °C       |
| Climatic Category (IEC 60068-1).....     |   | 40/ 90/ 21          |
| Moisture Sensitivity Level.....          |   | 1                   |
| ESD Classification (HBM).....            |   | N/A                 |

An optional Switch-Grade Fail-Short device is available. The optional Fail-Short assembly will activate at a temperature of 215 °C – 217 °C to provide a high conductive path to ground in case of a thermal overload. GDTs equipped with the optional Fail-Short device should be soldered either manually at a temperature that is below the activation temperature of the Fail-Short mechanism, or using a selective soldering process that does not exceed 210 °C.

### Notes:

- Model number marking on tube: 26-xxx V.
- The rated discharge current for TRIGARD® Gas Discharge Tubes is the total current equally divided between each line to ground.
- Sparkover limits after life  $\pm 25\%$ , IR  $> 10^8 \Omega$  (-25 %, +30 % for Model 2026-07, 2026-09 and 2026-60).
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.
- At delivery AQL 0.65 Level II, DIN ISO 2859

<sup>(3)</sup> Network applied.

<sup>(4)</sup> DC Sparkover may exceed  $\pm 25\%$  after discharge, but will continue to protect without venting.

\*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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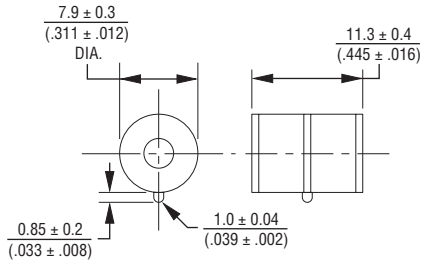
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# 2026 Series - 3-Pole Gas Discharge Tube

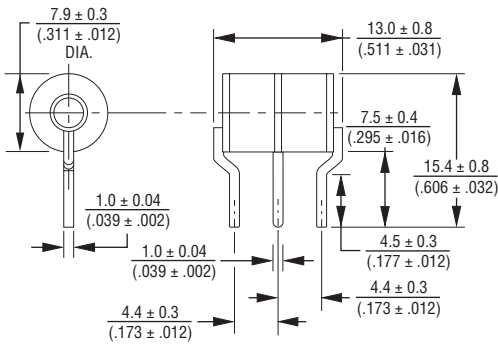
**BOURNS®**

Product Dimensions (additional lead form configurations available upon request)

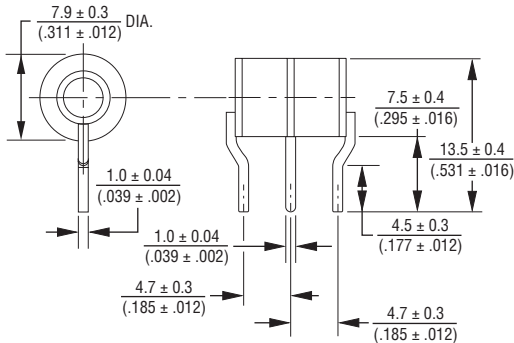
**2026-XX-A1**



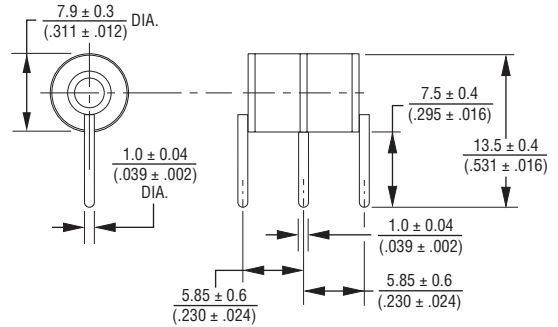
**2026-XX-C2**



**2026-XX-C3**

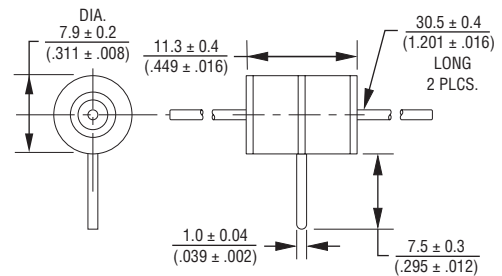


**2026-XX-C4**

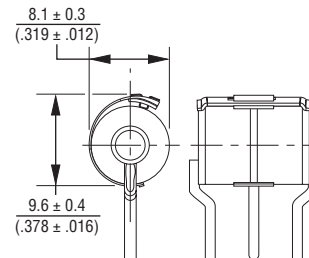


**2026-XX-C**

1.0 ± 0.08 mm (.039 ± .002 in.) dia. lead wire



**FAIL-SHORT CONFIGURATION  
2026-XX-C2F SHOWN**



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

UNITS WITH LEADS ARE BASED ON THE 2026-XX-A1 BODY.

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## 2026 Series - 3-Pole Gas Discharge Tube

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### How to Order

**2026 - nn - x n F LF**

Model Number \_\_\_\_\_

Designator \_\_\_\_\_

Voltage (Divided by 10) \_\_\_\_\_

|            |            |
|------------|------------|
| 07 = 75 V  | 30 = 300 V |
| 09 = 90 V  | 35 = 350 V |
| 15 = 150 V | 40 = 400 V |
| 20 = 200 V | 42 = 420 V |
| 23 = 230 V | 47 = 470 V |
| 25 = 250 V | 60 = 600 V |
| 26 = 260 V |            |

Leads \_\_\_\_\_

A = None  
C = 1 mm

Lead Shape \_\_\_\_\_  
(See Product Dimension Drawings)

Fail-Short Option \_\_\_\_\_

Blank = Standard Product  
F = With Fail-Short Mechanism



RoHS Compliant Option \_\_\_\_\_

Blank = Standard Product  
LF = RoHS Compliant Product

### Packaging Specifications

| Model             | Standard Packaging Quantity |      |      |
|-------------------|-----------------------------|------|------|
|                   | Bulk (Bag)                  | Tray | Box  |
| <b>2026-XX-A1</b> | 250                         |      | 1000 |
| <b>2026-XX-C</b>  | 50                          |      | 300  |
| <b>2026-XX-C2</b> |                             | 100  | 1000 |
| <b>2026-XX-C3</b> |                             | 100  | 1000 |
| <b>2026-XX-C4</b> |                             | 100  | 1000 |

### Agency Recognition / Industry Standards

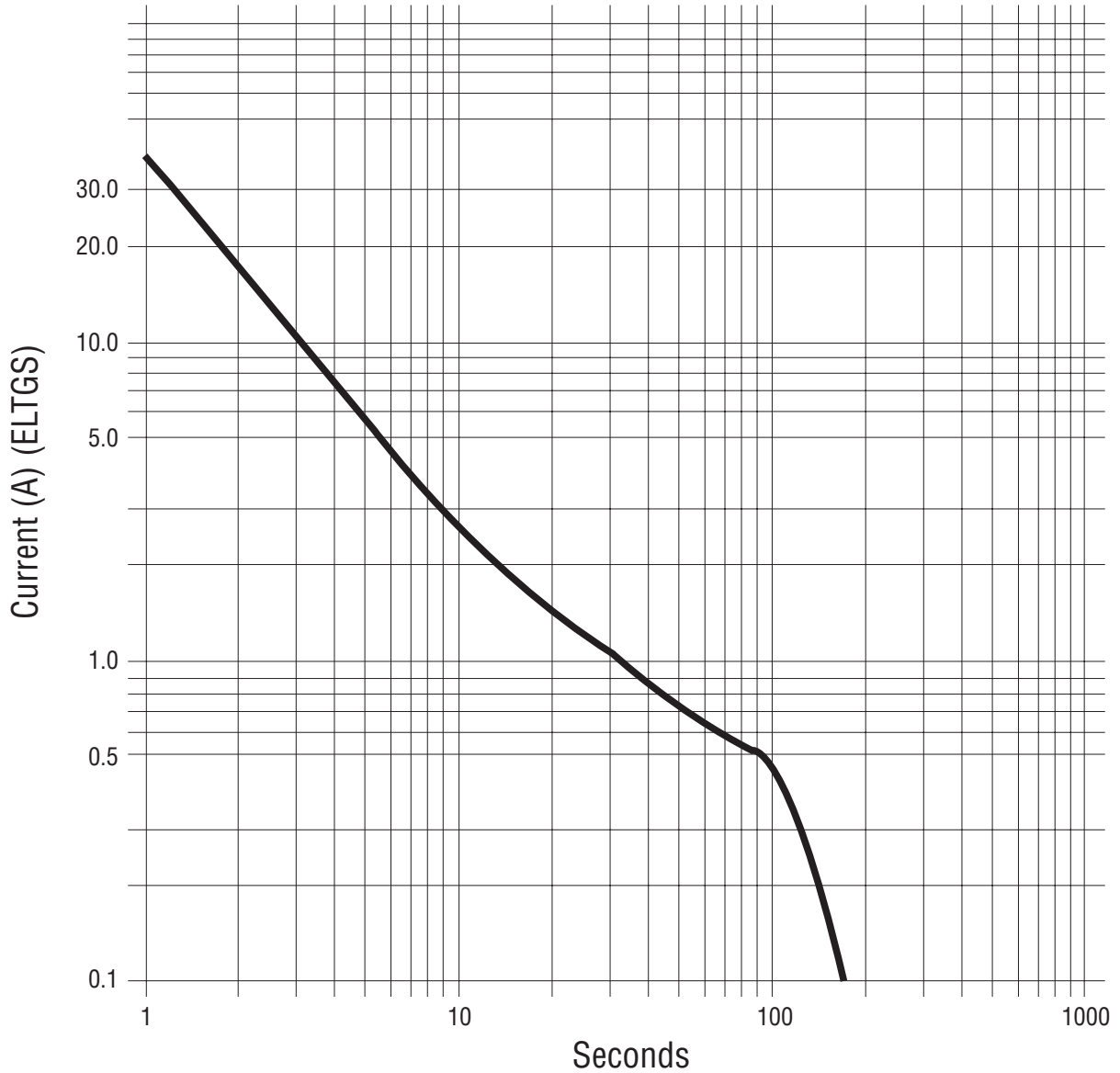
| Agency  | References   |
|---|--|
|  | UL 497B Recognized Component, Category QVGQ2, File E153537                               |
|  | UL 497 Recognized Component, Category QGVV2, File E53117                                 |
| <b>Telcordia<br/>GR-974-CORE/<br/>GR-1361-CORE</b>                                  | 2026 Series devices, as applicable, are tested to GR requirements for primary protectors |

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Switch-Grade Fail-short Device Shorting Curve 2026-XX-XF



ELTGS = Each Line to Ground Simultaneously

NOTE: When using a GDT fail-short device, it is imperative that all components associated and connected to the GDT with failsafe be tested in their respective completely integrated environment (finished product) to assure desired operation.

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