



## Features

- Balanced TRIGARD®
- 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 (CCITT) K.12, IEEE C62.31, RUS PE-80, Telcordia GR 1361

| Characteristic                    | Model No. |         |         |         |         |         |                   |
|-----------------------------------|-----------|---------|---------|---------|---------|---------|-------------------|
|                                   | 2026-07   | 2026-09 | 2026-15 | 2026-20 | 2026-23 | 2026-25 | 2026-26           |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 75 V      | 90 V    | 150 V   | 200 V   | 230 V   | 250 V   | 260V <sup>1</sup> |
| Impulse Sparkover                 |           |         |         |         |         |         |                   |
| 100 V/ $\mu$ s                    | 275 V     | 275 V   | 350 V   | 425 V   | 450 V   | 475 V   | 475 V             |
| 1000 V/ $\mu$ s                   | 700 V     | 600 V   | 575 V   | 625 V   | 650 V   | 700 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 | 300 V     | 350 V   | 400 V   | 420 V   | 470 V   | 600 V   |
| Impulse Sparkover                 |           |         |         |         |         |         |
| 100 V/ $\mu$ s                    | 500 V     | 625 V   | 675 V   | 725 V   | 800 V   | 925 V   |
| 1000 V/ $\mu$ s                   | 775 V     | 875 V   | 925 V   | 1000 V  | 1100 V  | 1250 V  |

|   |   |                     |
|---|---|---------------------|
| 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>2</sup> .....  | > 135 V, (52 V for Model 2026-07 & 2026-09, ..... | < 150 ms            |
|   | 80 V for Model 2026-15)                           |                     |
| Impulse Discharge Current .....   | 40000 A, 8/20 $\mu$ s <sup>3</sup> .....          | 1 operation minimum |
|   | 20000 A, 8/20 $\mu$ s .....                       | > 10 operations     |
|   | 1000 A, 10/1000 $\mu$ s .....                     | > 400 operations    |
| Alternating Discharge Current .....   | 130 Arms, 11 cycles <sup>3</sup> .....            | 1 operation minimum |
|   | 20 Arms, 1 s .....                                | > 10 operations     |
| Operation and Storage Temperature, Climatic Category (IEC 60068-1) 40/ 90/ 21 ..... | .....   | -40 to +90 °C       |

Optional Switch-Grade Fail-short device available.

## Notes:

- **UL recognized component, UL File E153537.**
- 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  $> 10^9 \Omega$  (-25 %, +30 % for Model 2026-07, 2026-09 and 2026-60).

<sup>1</sup> Tube meets BT requirement Type 14 A/1 (210-310 V).

<sup>2</sup> Network applied.

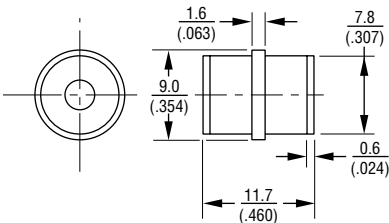
<sup>3</sup> DC Sparkover may exceed  $\pm 25\%$  after discharge, but will continue to protect without venting.

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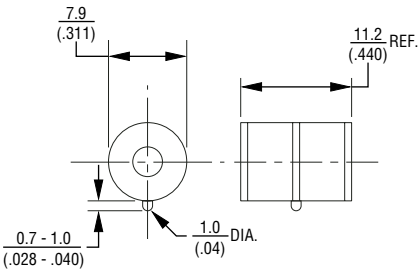
**BOURNS®**

Product Dimensions (additional lead form configurations available upon request)

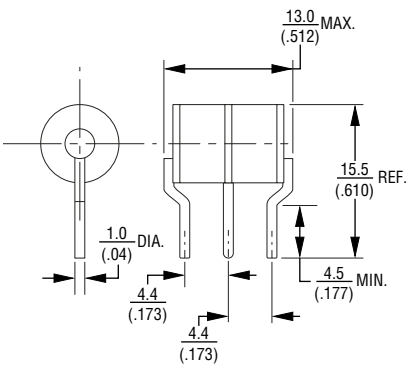
**2026-XX-A**



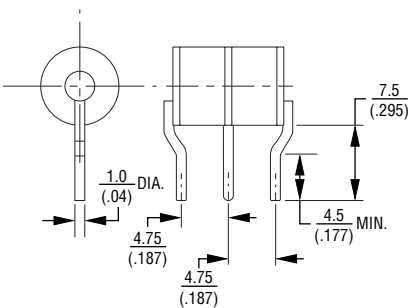
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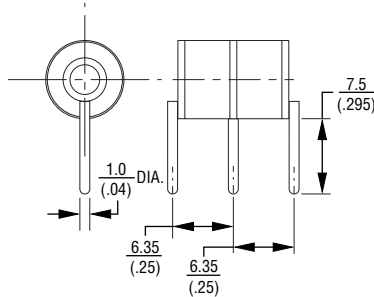
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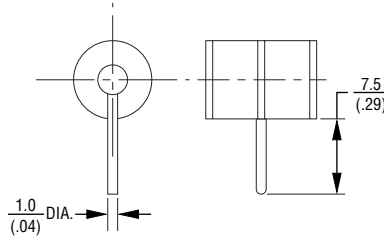
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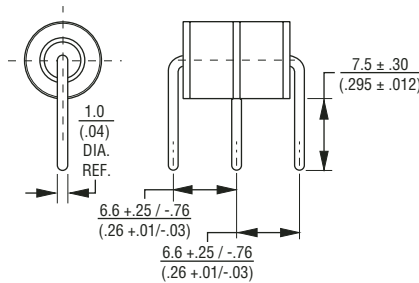
**2026-XX-C4**



**2026-XX-C8**



**2026-XX-C14**

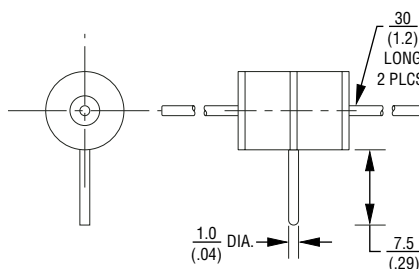


**2026-XX-C**

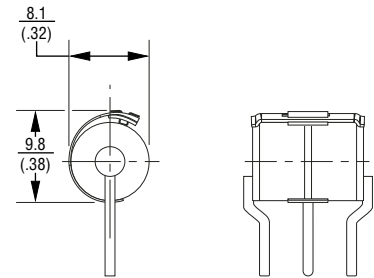
— 1.0 mm (0.040 in.) dia. lead wire

**2026-XX-CB**

— 0.8 mm (0.032 in.) dia. lead wire



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



\*Models with Fail-short are not available in RoHS versions.

DIMENSIONS =  $\frac{\text{MILLIMETERS}}{\text{(INCHES)}}$

**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  
 B = 0.8 mm  
 C = 1 mm

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

Fail-Short Option \_\_\_\_\_  
 Blank = Standard Product  
 F = With Fail-Short Mechanism

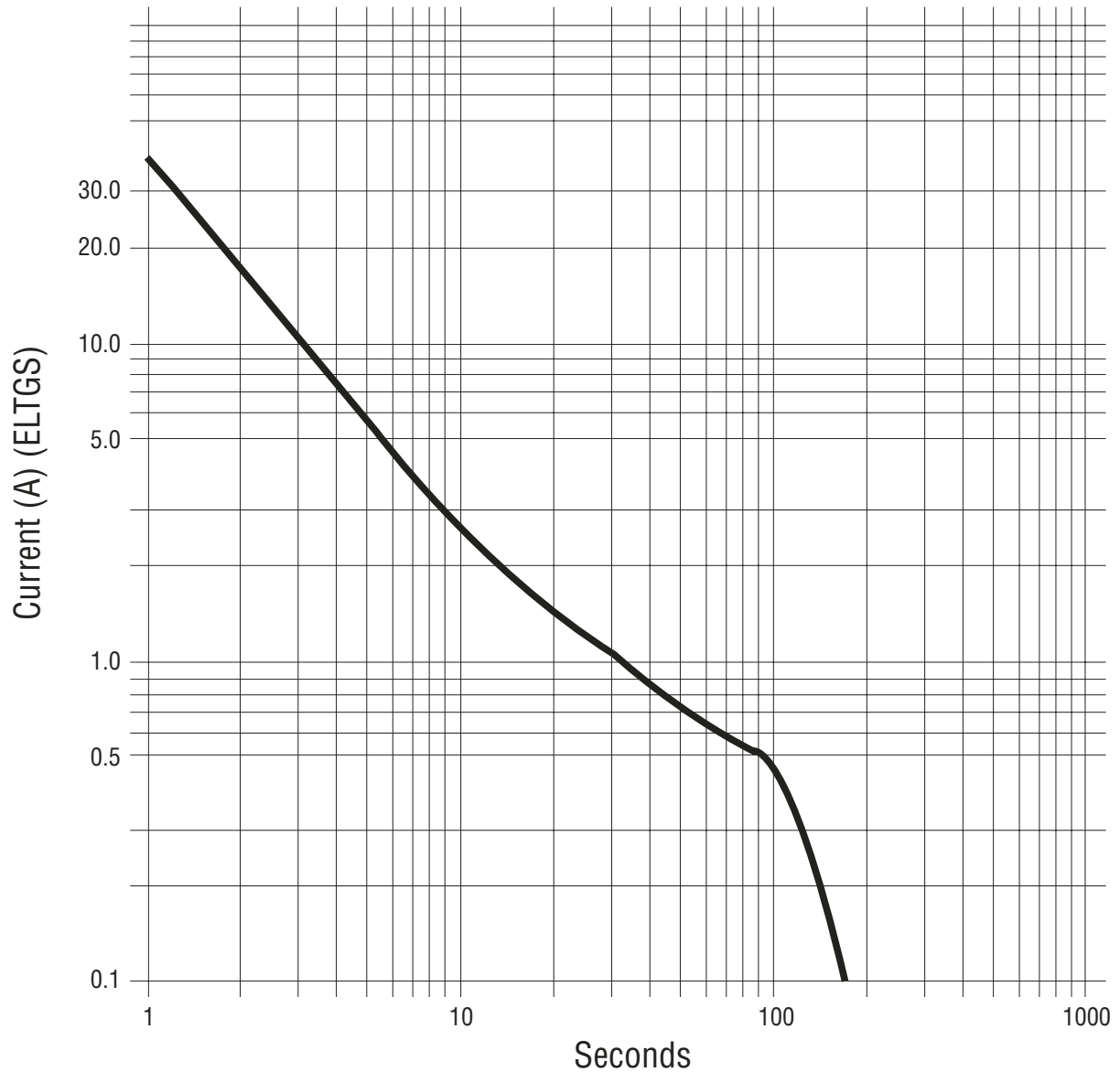
Lead Free Option \_\_\_\_\_  
 Blank = Standard Product  
 LF = Lead Free/RoHS Compliant Product (Not available on models with Fail-Short Mechanism)

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

# 2026 Series - 3-Pole Gas Discharge Tube

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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.