## 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 ±20 % @ 100 V/s | 75 V | 90 V | 150 V | 200 V | 230 V | 250 V | 260V[1] |
| Impulse Sparkover [(1)] | | | | | | | |
| 100 V/µs | 275 V | 275 V | 350 V | 425 V | 450 V | 475 V | 475 V |
| 1000 V/µs | 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 ±20 % @ 100 V/s | 300 V | 350 V | 400 V | 420 V | 470 V | 600 V |
| Impulse Sparkover [(1)] | | | | | | |
| 100 V/µs | 550 V | 625 V | 675 V | 725 V | 800 V | 925 V |
| 1000 V/µs | 775 V | 875 V | 925 V | 1000 V | 1100 V | 1250 V |

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

| | | | |
|---|---|---|---|
| Impulse Transverse Delay | 1000 V/µs | < 75 ns | |
| Insulation Resistance | 100 V (50 V for Model 2026–07 & 2026-09) | > $10^{10}$ Ω | |
| 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 [(3)] | >135 V, (52 V for Model 2026-07 & 2026-09, 80 V for Model 2026-15) | < 150 ms | |
| Impulse Discharge Current | 40000 A, 8/20 µs [(4)] | 1 operation minimum | |
| | 20000 A, 8/20 µs | > 10 operations | |
| | 5000 A, 10/350 µs | 1 operation | |
| | 1000 A, 10/1000 µs | > 400 operations | |
| Alternating Discharge Current | 130 Arms, 11 cycles [(4)] | 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 | |

Optional Switch-Grade Fail-short device available. Models with the optional Fail-Short assembly activate at low temperature (215 °C – 217 °C) when required. These models are designed to be soldered either manually or using a selective soldering process that does not exceed 210 °C, below the temperature that the Fail-Short assembly would activate.

**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 ±25 %, IR >$10^8$Ω (-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

[(2)] Tube meets BT requirement Type 14 A/1 (210-310 V).

[(3)] Network applied.

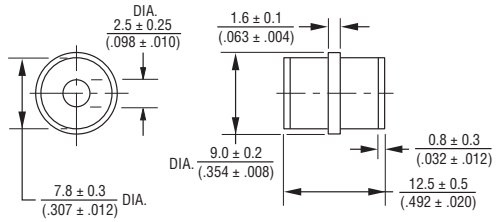
[(4)] DC Sparkover may exceed ±25 % after discharge, but will continue to protect without venting.

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

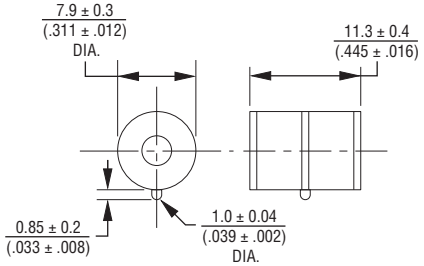
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

## Product Dimensions (additional lead form configurations available upon request)

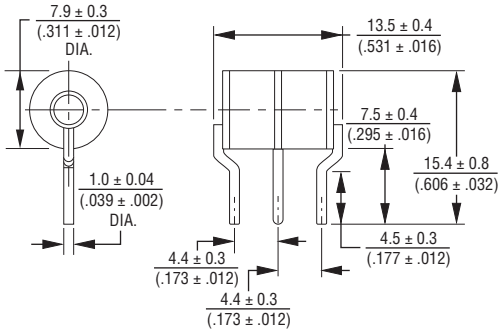
### 2026-XX-A



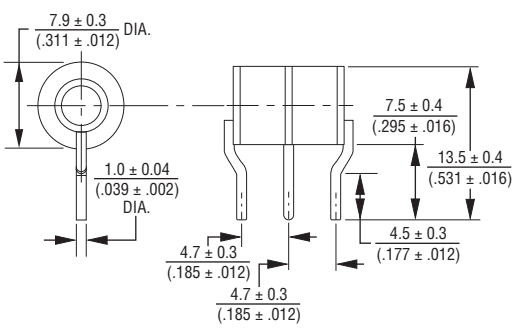

### 2026-XX-A1



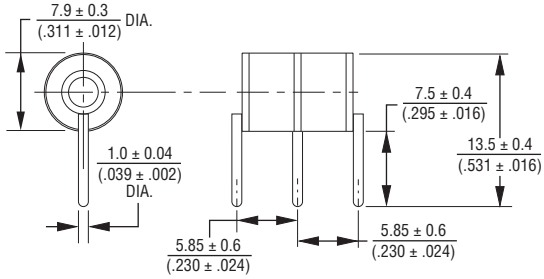

### 2026-XX-C2



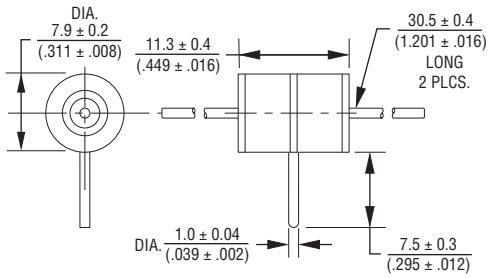

### 2026-XX-C3



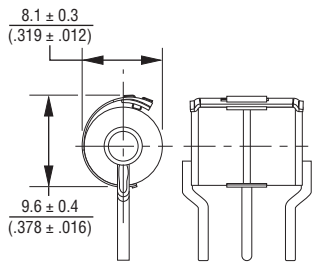

### 2026-XX-C4




### 2026-XX-C
**1.0 ± 0.08 mm (.039 ± .002 in.) dia. lead wire**




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




DIMENSIONS: MM / (INCHES)

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

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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 |
| **2026-XX-A** | 250 | | 1000 |
| **2026-XX-A1** | 250 | | 1000 |
| **2026-XX-C** | 50 | | 300 |
| **2026-XX-C2** | | 100 | 900 |
| **2026-XX-C3** | | 100 | 900 |
| **2026-XX-C4** | | 100 | 900 |

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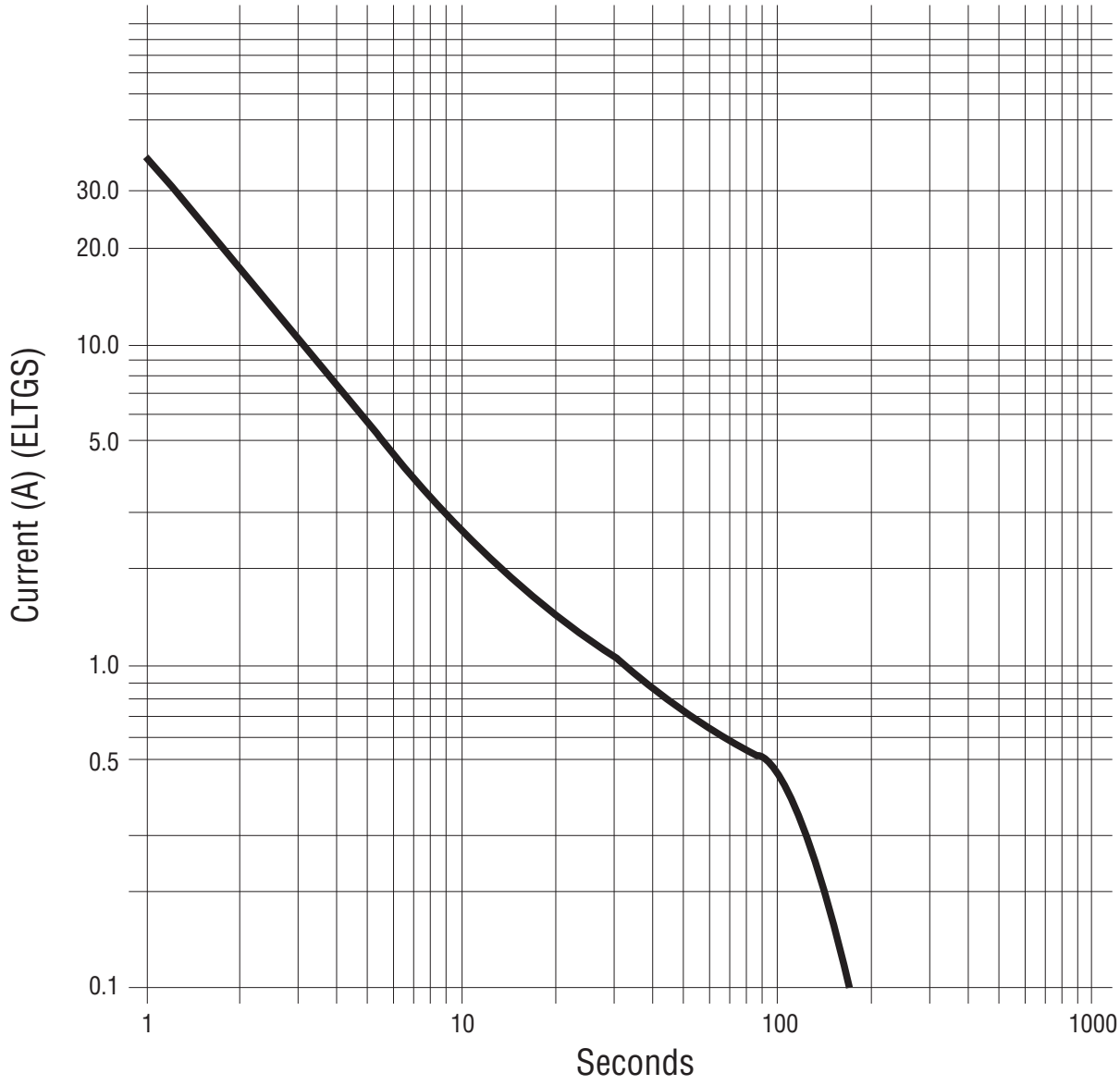
**Switch-Grade Fail-short Device Shorting Curve 2026-XX-XF**




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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