



## 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\*

## Additional Information

Click these links for more information:



## 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 1000 V/ $\mu$ s	275 V 700 V	275 V 600 V	350 V 575 V	425 V 625 V	450 V 650 V	475 V 700 V	475 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 1000 V/ $\mu$ s	550 V 775 V	625 V 875 V	675 V 925 V	725 V 1000 V	800 V 1100 V	925 V 1250 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 <sup>10</sup> $\Omega$
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,..... 80 V for Model 2026-15)	< 150 ms
Impulse Discharge Current .....	20000 A, 8/20 $\mu$ s <sup>(4)</sup> .....	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<sup>8</sup>  $\Omega$  (-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.

**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant. See [www.P65Warnings.ca.gov](http://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

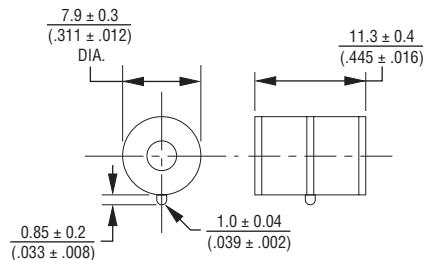
- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

## 2026 Series – 3-Pole Gas Discharge Tube

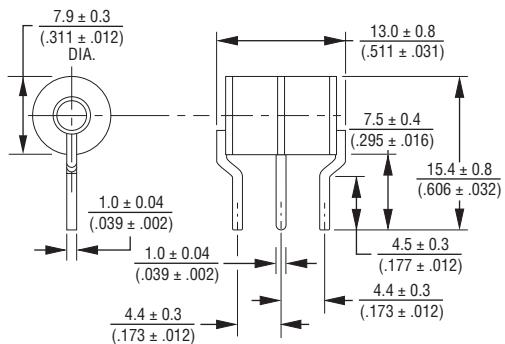
**BOURNS®**

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

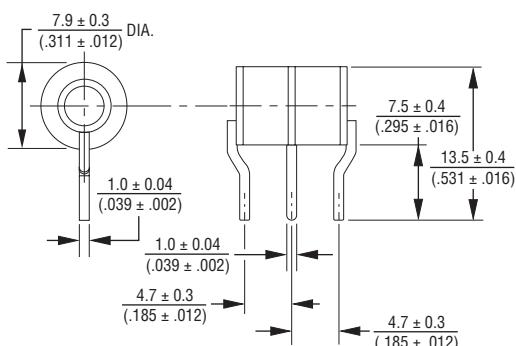
2026-XX-A1



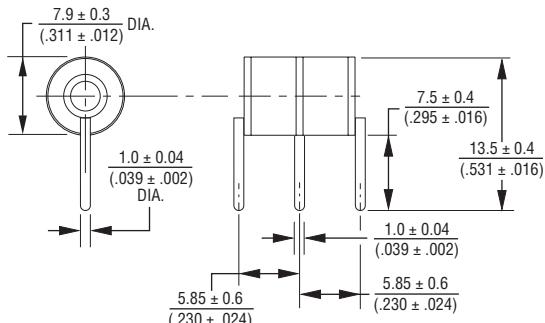
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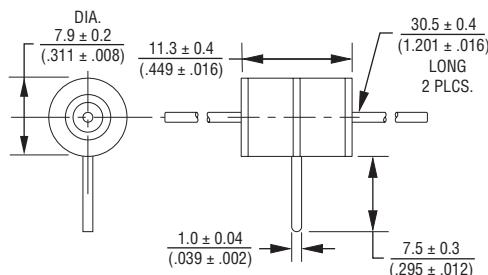
2026-XX-C3



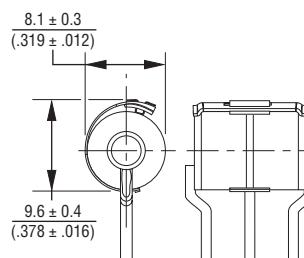
2026-XX-C4



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 Designator

LF = RoHS Compliant Product

### Packaging Specifications

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

### Agency Recognition / Industry Standards

Agency	References
 ®	UL 497B Recognized Component, Category QVGQ2, File E153537
 ®	UL 497 Recognized Component, Category QVGV2, File E53117
<b>Telcordia</b> <b>GR-974-CORE/</b> <b>GR-1361-CORE</b>	2026 Series devices, as applicable, are tested to GR requirements for primary protectors

**BOURNS®**

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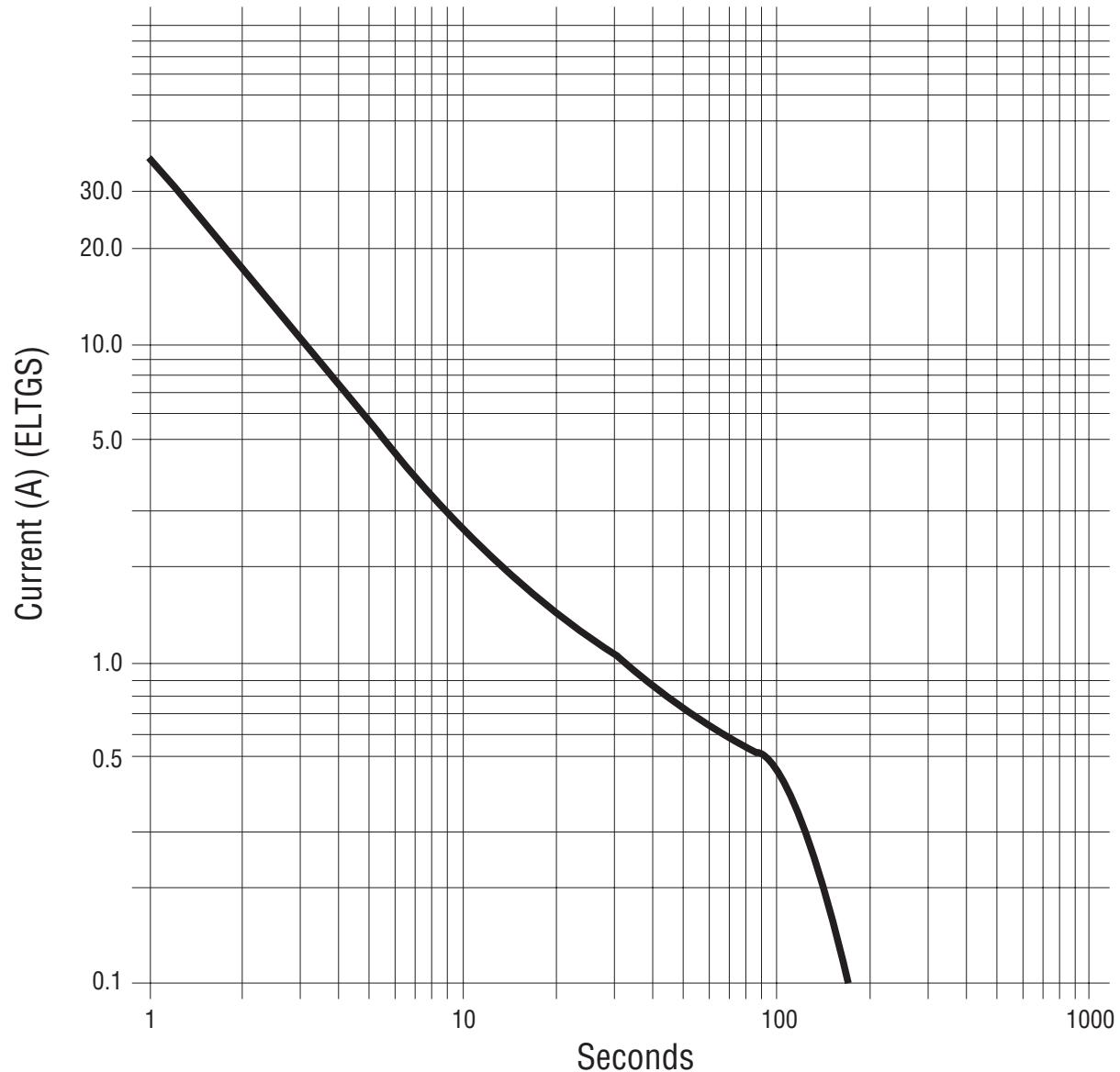
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## Switch-Grade Fail-short Device Shorting Curve 2026-XX-XF



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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