

### **Features**

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

2026 Series - 3-Pole Gas Discharge Tube

#### **Applications**

- Telecommunications
- Industrial electronics
- **Commercial electronics**
- Consumer electronics

### 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 (1)	75 V	90 V	150 V	200 V	230 V	250 V	260 V
Impulse Sparkover (2)							
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.					
Characteristic	2026-30	2026-35	2026-40	2026-42	2026-47	2026-60
DC Sparkover ±20 % @ 100 V/s (1)	300 V	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover <sup>(2)</sup>						
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) In ionized mode.

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

Insulation Resistance		> 10 <sup>10</sup> Ω
Glow Voltage		~ 70 V
Arc Voltage		~ 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,	< 150 ms
5	80 V for Model 2026-15)	
Impulse Discharge Current		10 operations
	5000 A, 10/350 µs	
	1000 A, 10/1000 µs	400 operations
Alternating Discharge Current		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
		1
FSD Classification (HBM)		N/A
		1 1/71

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<sup>®</sup> Gas Discharge Tubes is the total current equally divided between each line to ground. Sparkover limits after life ±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 ±25 % after discharge, but will continue to protect without venting.

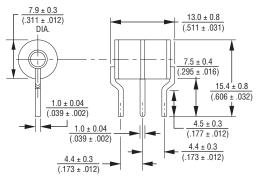


\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

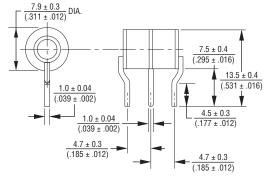
## 2026 Series - 3-Pole Gas Discharge Tube

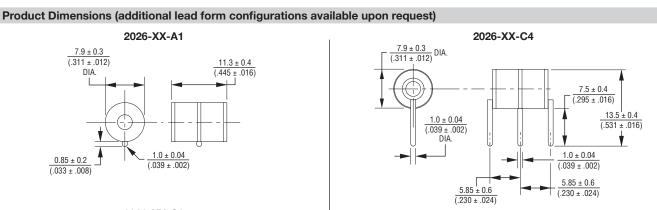
#### 2026-XX-A1 7.9 ± 0.3 (.311 ± .012) 11.3 ± 0.4 DIA. (.445 ± .016) 1 1 1.0 ± 0.04 $0.85 \pm 0.2$ 1 (.039 ± .002) (.033 ± .008)





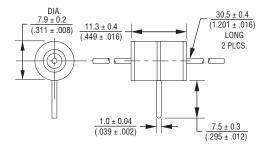




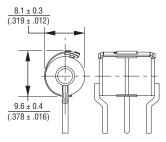


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2026-XX-C 1.0 ± 0.08 mm (.039 ± .002 in.) dia. lead wire



FAIL-SHORT CONFIGURATION 2026-XX-C2F SHOWN



MM DIMENSIONS: (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
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	
American Descensition (Industry	

#### **Packaging Specifications**

	Standard Packaging Quantity			
Model	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	

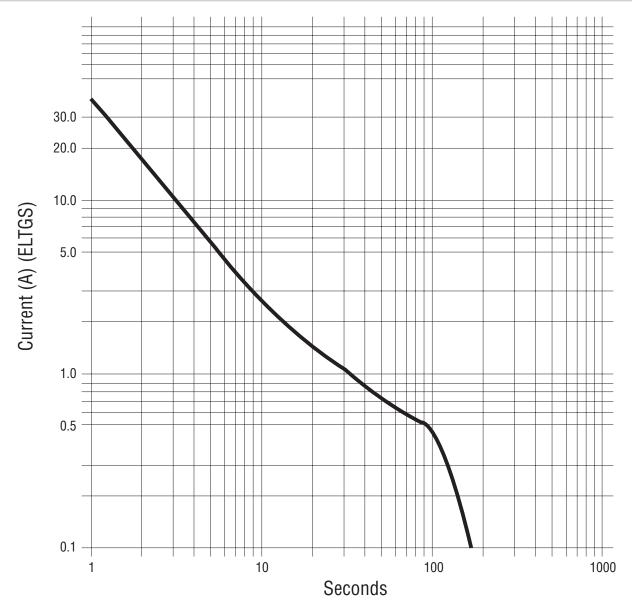
#### Agency Recognition / Industry Standards

Agency	References
<b>AI</b> ®	UL 497B Recognized Component, Category QVGQ2, File E153537
<b>71</b> ®	UL 497 Recognized Component, Category QVGV2, File E53117
Telcordia GR-974-CORE/ GR-1361-CORE	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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