



**BOURNS®**

## 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
- Aircraft and 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	75 V	90 V	150 V	200 V	230 V	250 V	260 V
Impulse Sparkover <sup>(1)</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	300 V	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover <sup>(1)</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> 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>(2)</sup> .....	>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 $\mu$ s <sup>(3)</sup> .....	1 operation minimum
	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>(3)</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).....	.....	6

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>(2)</sup> Network applied.

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



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

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

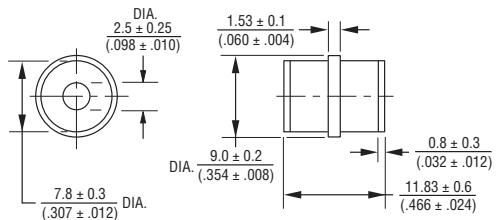
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## 2026 Series - 3-Pole Gas Discharge Tube

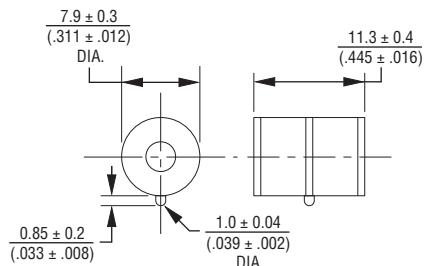
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### Product Dimensions (additional lead form configurations available upon request)

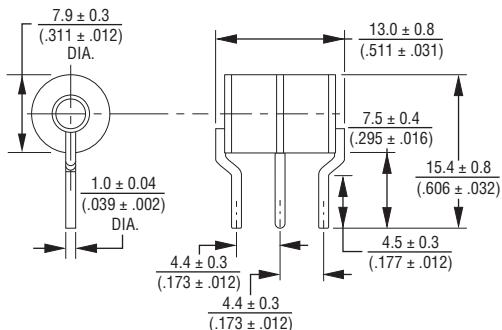
2026-XX-A



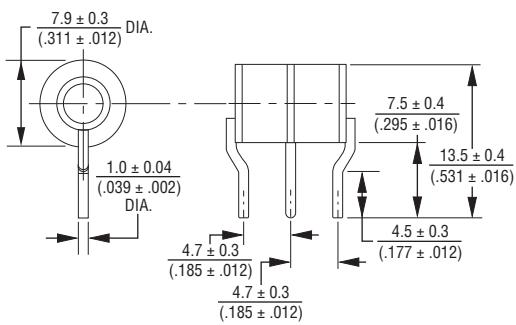
2026-XX-A1



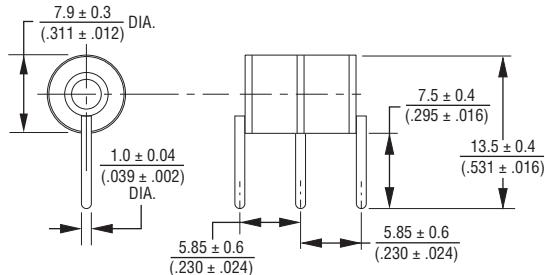
2026-XX-C2



2026-XX-C3

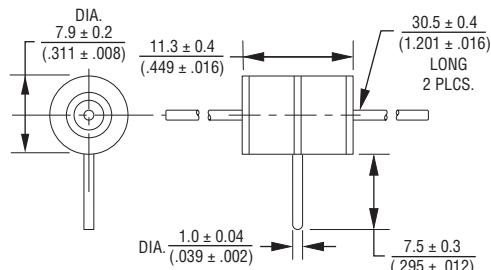


2026-XX-C4

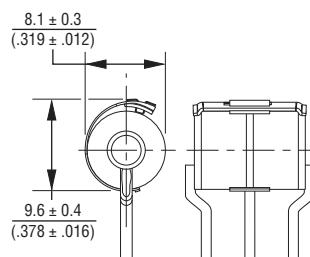


2026-XX-C

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



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



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

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

Model Number	2026	-	nn	-	x	n	F	LF
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	1000
2026-XX-C3		100	1000
2026-XX-C4		100	1000

### Agency Recognition / Industry Standards

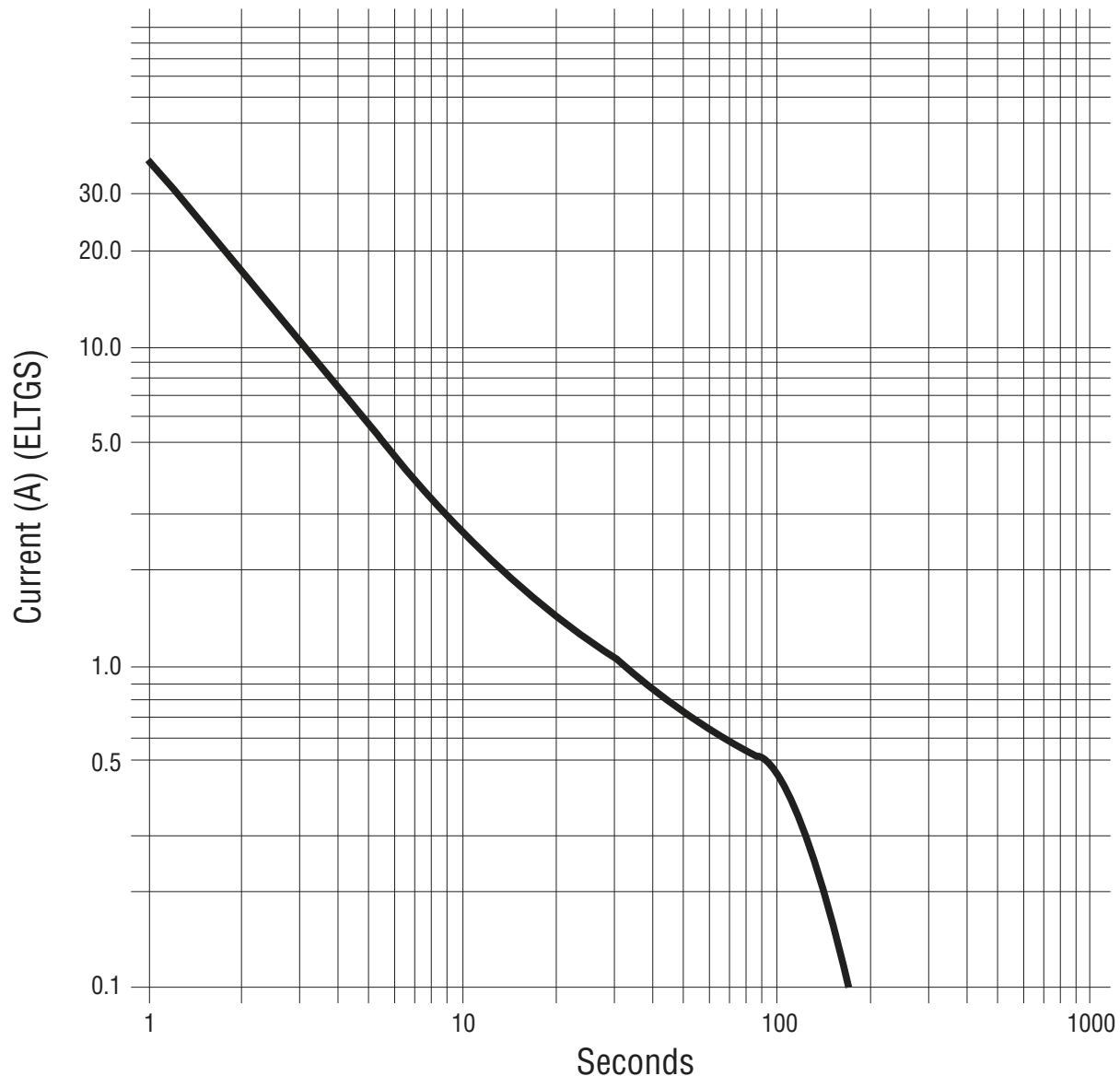
Agency	References
 ®	UL 497B Recognized Component, Category QVGQ2, File E153537
 ®	UL 497 Recognized Component, Category QVGV2, File E53117
<b>Telcordia</b> <b>GR-974-CORE/</b> <b>GR-1361-CORE</b>	2026 Series devices, as applicable, are tested to GR requirements for primary protectors

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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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