

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 ⁽¹⁾ 100 V/ μ s 1000 V/ μ 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 ⁽¹⁾ 100 V/ μ s 1000 V/ μ 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

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

Impulse Transverse Delay.....	1000 V/ μ s.....	< 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 ⁽²⁾	>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 μ s ⁽³⁾	1 operation minimum
	20000 A, 8/20 μ s	> 10 operations
	5000 A, 10/350 μ s	1 operation
	1000 A, 10/1000 μ s	> 400 operations
Alternating Discharge Current	130 Arms, 11 cycles ⁽³⁾	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

⁽²⁾ Network applied.

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



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

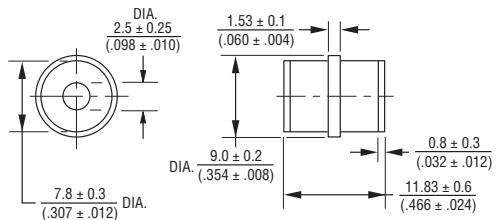
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

2026 Series - 3-Pole Gas Discharge Tube

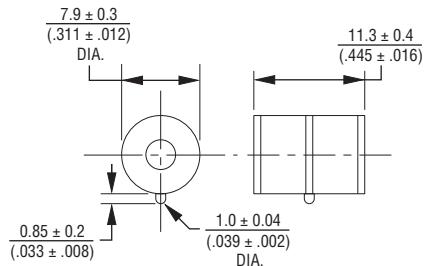
BOURNS®

Product Dimensions (additional lead form configurations available upon request)

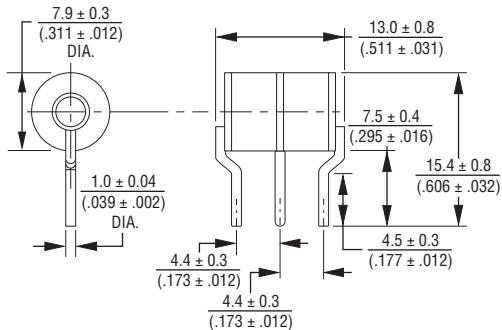
2026-XX-A



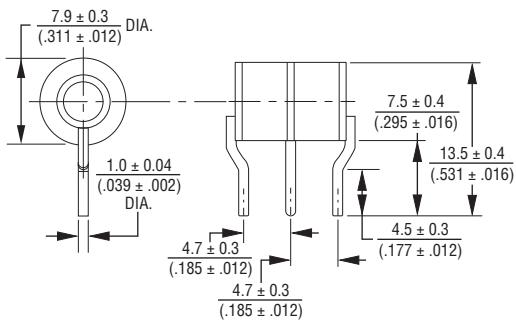
2026-XX-A1



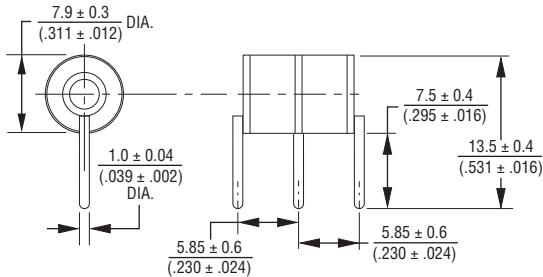
2026-XX-C2



2026-XX-C3

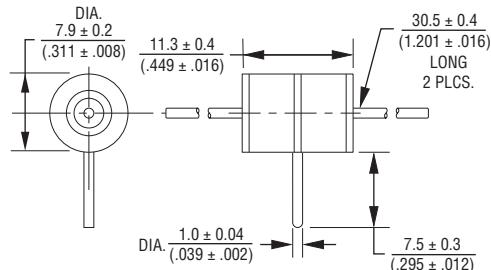


2026-XX-C4

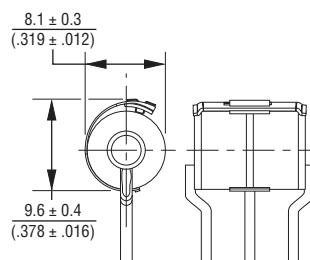


2026-XX-C

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

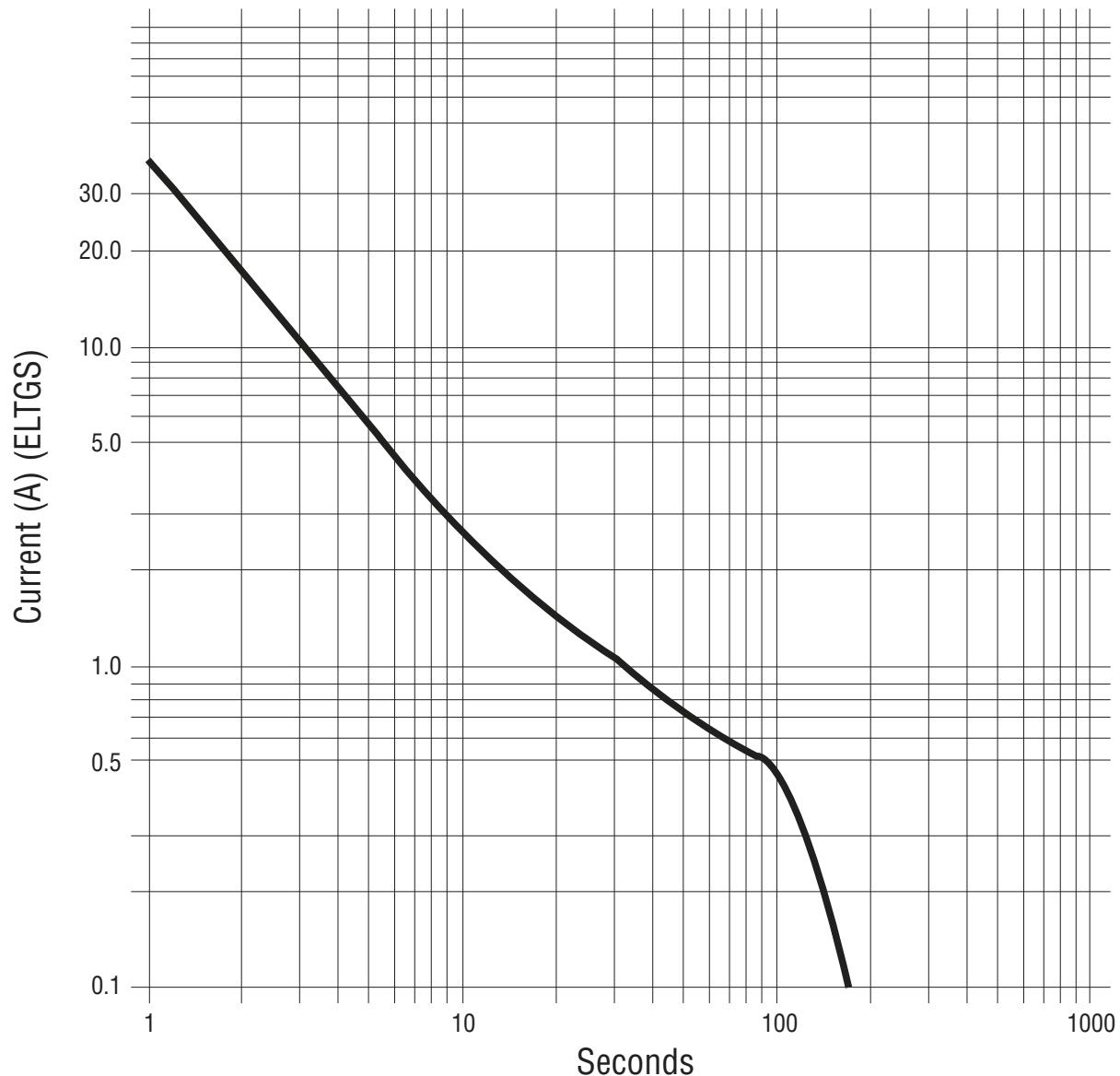
Agency	References
 ®	UL 497B Recognized Component, Category QVGQ2, File E153537
 ®	UL 497 Recognized Component, Category QVGV2, File E53117
Telcordia GR-974-CORE/ GR-1361-CORE	2026 Series devices, as applicable, are tested to GR requirements for primary protectors

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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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