



Features

- Balanced Mini-TRIGARD™
- 5 mm diameter, 7.5 mm long
- UL Recognized 
- RoHS compliant* versions available

Applications

- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics
- Automotive, aircraft, military electronics

2036 Series - Miniature 3-Pole Gas Discharge Tube

Characteristics

Test Methods per ITU-T (CCITT) K.12, IEEE C62.31

Characteristic	Model No.					
	2036-07	2036-09	2036-15	2036-20	2036-23	2036-25
DC Sparkover $\pm 20\%$ @ 100 V/s	75 V	90 V	150 V	200 V	230 V	250 V
Impulse Sparkover						
100 V/ μ s	250 V	250 V	350 V	425 V	450 V	475 V
1000 V/ μ s	525 V	550 V	500 V	575 V	600 V	625 V

Characteristic	Model No.					
	2036-30	2036-35	2036-40	2036-42	2036-47	2036-60
DC Sparkover $\pm 20\%$ @ 100 V/s	300 V	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover						
100 V/ μ s	500 V	600 V	650 V	675 V	750 V	850 V
1000 V/ μ s	650 V	750 V	825 V	850 V	950 V	1100 V

Impulse Transverse Delay	1000 V/ μ s	<75 ns
Insulation Resistance	100 V (50 V for Model 2036-07 & 2036-09)	>10 ¹⁰ Ω
Glow Voltage	10 mA	~70 V
Arc Voltage	1 A	~10 V
Glow-Arc Transition Current		<0.5 A
Capacitance	1 MHz	<2 pF
DC Holdover Voltage ¹	135 V, (52 V for Model 2036-07 & 2036-09, 80 V for Model 2036-15)	<150 ms
Impulse Discharge Current	20000 A, 8/20 μ s ²	1 operation minimum
	10000 A, 8/20 μ s	>10 operations
	2000 A, 10/350 μ s	1 operation
	200 A, 10/1000 μ s	>300 operations
	200 A, 10/700 μ s	>500 operations
Alternating Discharge Current	20 Arms, 1 s ²	1 operation minimum
	10 Arms, 1 s	>10 operations
Operating Temperature		-55 to +85 °C
Climatic Category (IEC 60068-1)		40/90/21

Optional Switch-Grade Fail-Short device available.

Notes:

- **UL recognized component, UL File E153537.**
- No model number marking on tube; date code and voltage only: month year digits, xxxV (e.g. 0209 400V).
- The rated discharge current for Mini-TRIGARD™ Gas Discharge Tubes is the total current equally divided between each line to ground.
- Sparkover limits after life $\pm 25\%$, IR >10⁸ Ω (-25 %, +30 % for Model 2036-07, 2036-09 and 2036-60).
- Operating characteristics per RUS PE-80 and Telcordia GR 1361 available, contact factory.
- 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.

¹ Network applied.

² DC Sparkover may exceed $\pm 25\%$ 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.

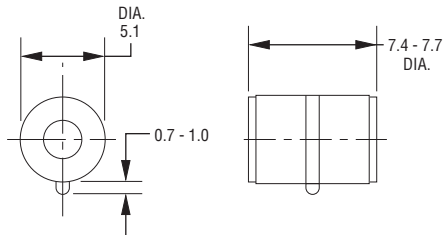
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

2036 Series - Miniature 3-Pole Gas Discharge Tube

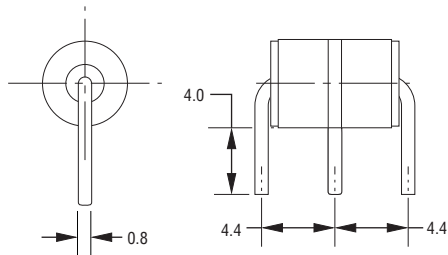
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Product Dimensions

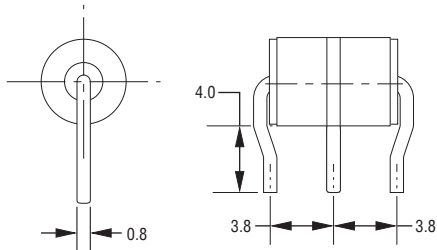
2036-XX-A



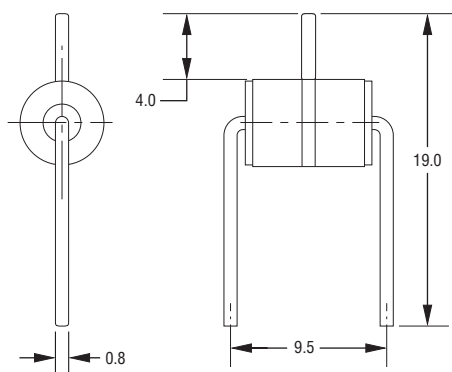
2036-XX-B2



2036-XX-B3

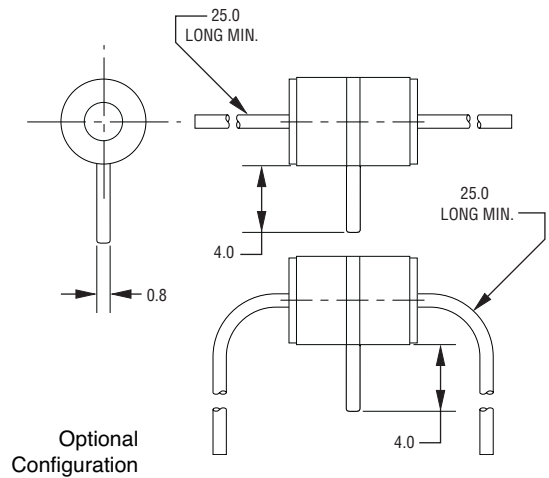


2036-XX-B9

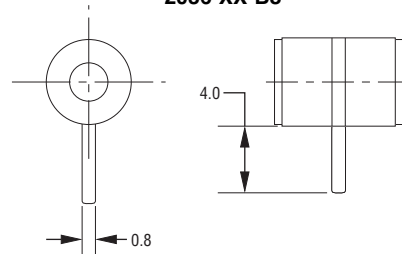


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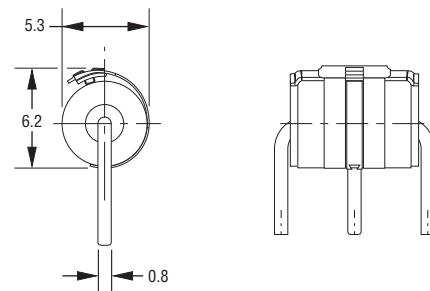
2036-XX-B



2036-XX-B8



**FAIL-SHORT CONFIGURATION
2036-XX-B2F SHOWN**

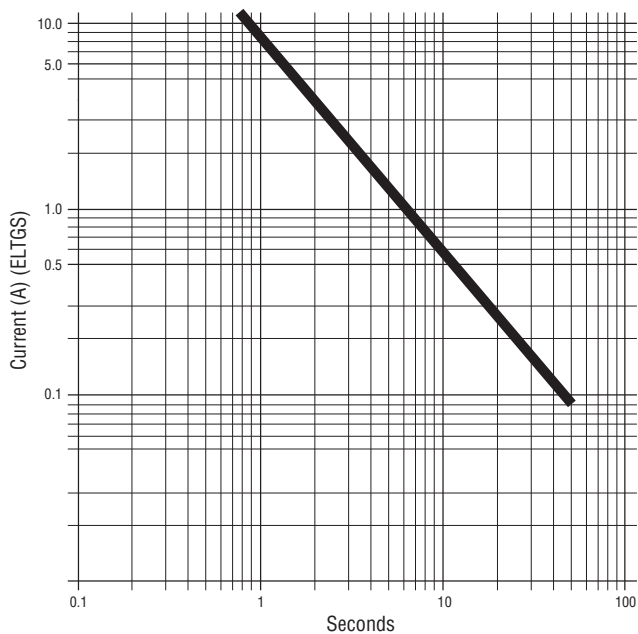


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Switch-Grade Fail-Short Device Shorting Curve 2036-XX-XF



ELTGS = Each Line to Ground Simultaneously

NOTE: When using a GDT failsafe 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 proper operation.

How to Order

2036 - xx - 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

Leads _____

A = None

B = 0.8 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 2036-xx-n ships standard bulk pack, 100 pcs./tray.

REV. 07/14

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AMEYA360

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