

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

2036 Series - Miniature 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.					
Characteristic	2036-07	2036-09	2036-15	2036-20	2036-23	2036-25
DC Sparkover ±20 % @ 100 V/s	75 V	90 V	150 V	200 V	230 V	250V
Impulse Sparkover (1) 100 V/µs 1000 V/µs	250 V 525 V	250 V 550 V	350 V 500 V	425 V 575 V	450 V 600 V	475 V 625 V

Characteristic	Model No.					
Characteristic	2036-30	2036-35	2036-40	2036-42	2036-47	2036-60
DC Sparkover ±20 % @ 100 V/s	300 V	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover (1) 100 V/µs 1000 V/µs	500 V 650 V	600 V 750 V	650 V 825 V	675 V 850 V	750 V 950 V	850 V 1100 V

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

Additional Information

Click these links for more information:











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Impulse Transverse Delay	1000 V/µs	<75 ns
Insulation Resistance	100 V (50 V for Model 2036–07 & 2036-09)	>10¹0 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
	135 V, (52 V for Model 2036-07 & 2036-09,	
•	80 V for Model 2036-15)	
Impulse Discharge Current	20000 A, 8/20 µs (3)	1 operation minimum
-	10000 A, 8/20 μs	
	2000 A, 10/350 μs	1 operation
	200 A, 10/1000 μs	
	200 A, 10/700 μs	>500 operations
Alternating Discharge Current	20 Arms, 11 cycles (3)	1 operation
	10 Arms, 1 s	
Storage Temperature		55 to +105 °C
Operating Temperature		55 to +105 °C
Climatic Category (IEC 60068-1)		55/105/21
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 $215\,^{\circ}\text{C} - 217\,^{\circ}\text{C}$ 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 $210\,^{\circ}\text{C}$.

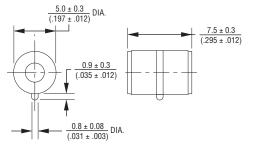
Notes:

- 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 ±25 %, IR >10°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.
- (2) Network applied.
- (3) DC Sparkover may exceed ±25 % after discharge, but will continue to protect without venting.

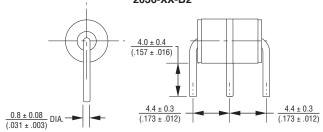


Product Dimensions

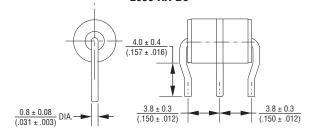
2036-XX-A



2036-XX-B2



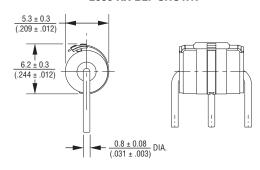
2036-XX-B3



MM (INCHES) DIMENSIONS:

2036-XX-B $\frac{26.9 \pm 0.4}{(1.060 \pm .016)}$ 4.0 ± 0.4 $(.157 \pm .016)$ 0.8 ± 0.08 $\frac{\text{u.o} \pm 0.08}{(.031 \pm .003)}$ DIA.

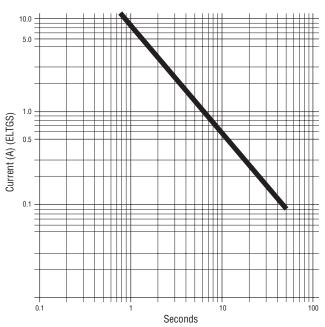
FAIL-SHORT CONFIGURATION 2036-XX-B2F SHOWN



2036 Series - Miniature 3-Pole Gas Discharge Tube

BOURNS®

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

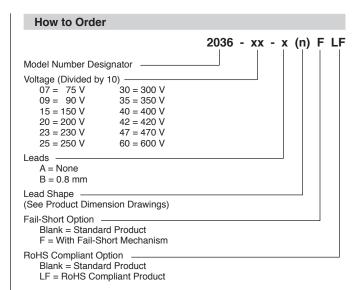


ELTGS = Each Line to Ground Simultaneously

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.

Packaging Specifications

	Standard Packaging Quantity			
Model	Bulk (Bag)	Tray	Вох	
2036-XX-A	250		1000	
2036-XX-B	100		700	
2036-XX-B2		100	1000	
2036-XX-B3		100	1000	
2036-XX-B2F		100	1000	



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