




Features

- 5 mm diameter, 4 mm long (2035 series)
- 5 mm diameter, 5 mm long (2037 series)
- UL Recognized 
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant* versions available

Applications

- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics
- Aircraft and military electronics

2035/2037 Series - Miniature 2-Pole Gas Discharge Tube

Characteristics

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

Characteristic	Model No.					
	2035/2037-09	2035/2037-15	2035/2037-20	2035/2037-23	2035/2037-25	2035/2037-30
DC Sparkover $\pm 15\%$ ($\pm 20\%$ for Model 2035/2037-09) @ 100 V/s	90 V	150 V	200 V	230 V	250 V	300V
Impulse Sparkover ⁽¹⁾						
100 V/ μ s	300 V	350 V	425 V	450 V	475 V	525 V
1000 V/ μ s	550 V	550 V	575 V	600 V	625 V	650 V

Characteristic	Model No.				
	2035/2037-35	2035/2037-40	2035/2037-42	2035/2037-47	2035/2037-60
DC Sparkover $\pm 15\%$ @ 100 V/s	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover ⁽¹⁾					
100 V/ μ s	600 V	650 V	675 V	750 V	950 V
1000 V/ μ s	750 V	800 V	850 V	950 V	1100 V

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

Insulation Resistance (IR)	100 V (50 V for Models 2035/2037-09)	$> 10^{10} \Omega$
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 0.5 A
Capacitance	1 MHz	< 1 pF
DC Holdover Voltage ⁽²⁾	135 V, (52 V for Models 2035/2037-09, 80 V for Models 2035/2037-15)	< 150 ms
Impulse Discharge Current	10000 A, 8/20 μ s ⁽³⁾	1 operation min.
	5000 A, 8/20 μ s	> 10 operations
	1000 A, 10/350 μ s	1 operation
	100 A, 10/1000 μ s	> 300 operations
	100 A, 10/700 μ s	> 500 operations
Alternating Discharge Current	20 Arms, 11 cycles ⁽³⁾	1 operation min.
	5 Arms, 1 s	> 10 operations
Operating Temperature		-55 to +85 °C
Climatic Category (IEC 60068-1)		40/90/21

Notes:

- UL recognized component, UL File E153537.
- Model number marking on tube: xxxV.
- Sparkover limits after life $\pm 20\%$ (-25 %, +30 % for Models 2035/2037-09 and 2035/2037-60) , IR $>10^8 \Omega$.
- Other DC sparkover ranges available on request.
- At delivery AQL 0.65 Level II, DIN ISO 2859.

⁽²⁾ Network applied.

⁽³⁾ DC Sparkover may exceed $\pm 20\%$ but will continue to protect without venting.



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

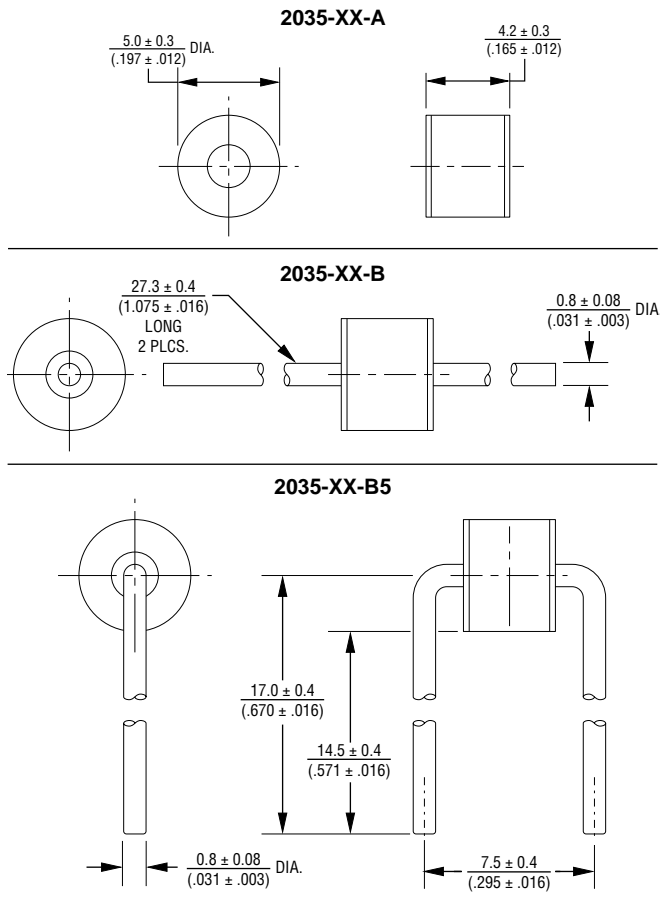
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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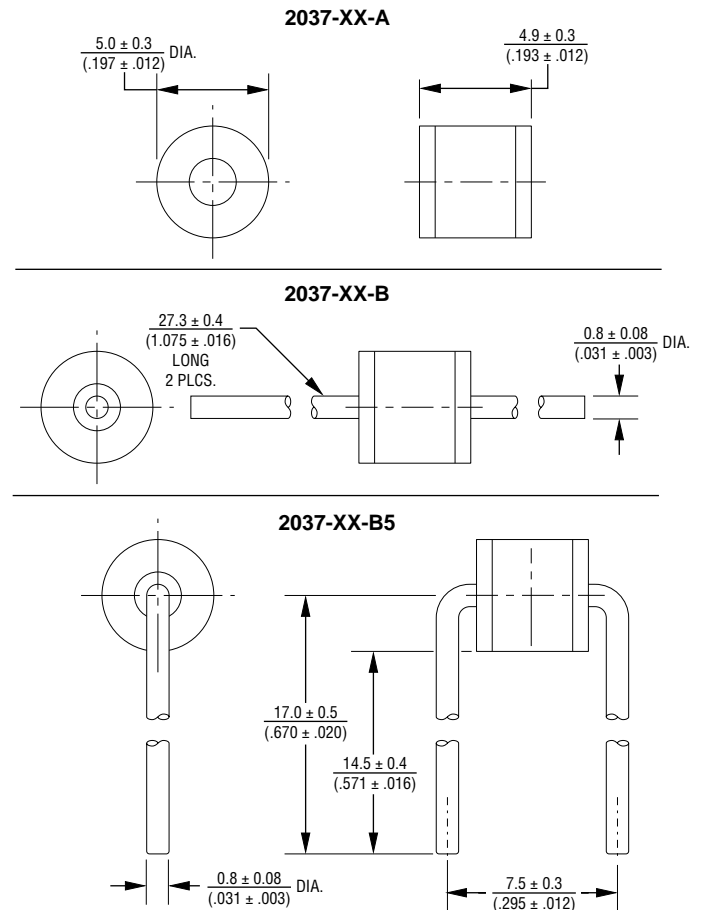
2035/2037 Series - Miniature 2-Pole Gas Discharge Tube

BOURNS®

Product Dimensions



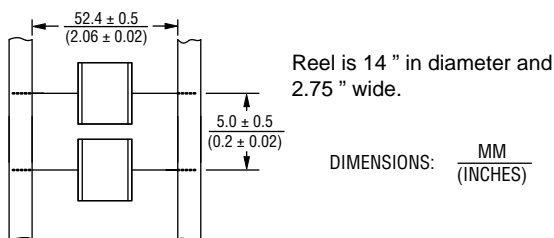
2035-xx-B5 not available in reel pack.



2037-xx-B5 not available in reel pack.

Packaging Specifications

-BT1



Model	Standard Packaging Quantity			
	Bulk (Bag)	Tray	Box	Reel
2035/2037-XX-A	250		1000	
2035/2037-XX-B	100		700	
2035/2037-XX-B5	250		1000	
2035/2037-XX-BT1				1000

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How to Order

2035/37 - xx - x (n) T1 LF

Model Number Designator _____

Voltage (Divided by 10) _____

09 = 90 V 25 = 250 V 42 = 420 V
 15 = 150 V 30 = 300 V 47 = 470 V
 20 = 200 V 35 = 350 V 60 = 600 V
 23 = 230 V 40 = 400 V

Leads _____

A = None B = 0.8 mm

Lead Shape _____

(See Product Dimension Drawings)

Packaging _____

Blank = Bulk Packaging (Standard)
 T1 = Reelpack (Optional)

RoHS Compliant Option _____

Blank = Standard Product
 LF = RoHS Compliant Product

REV. 09/19

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