

BOURNS®

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*

Additional Information

Click these links for more information:



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/μs 1000 V/μs	300 V 550 V	350 V 550 V	425 V 575 V	450 V 600 V	475 V 625 V	525 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/μs 1000 V/μs	600 V 750 V	650 V 800 V	675 V 850 V	750 V 950 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 μs ⁽³⁾	1 operation min.
	5000 A, 8/20 μs	>10 operations
	1000 A, 10/350 μs	1 operation
	100 A, 10/1000 μs	>300 operations
	100 A, 10/700 μs	>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.



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.

See www.P65Warnings.ca.gov

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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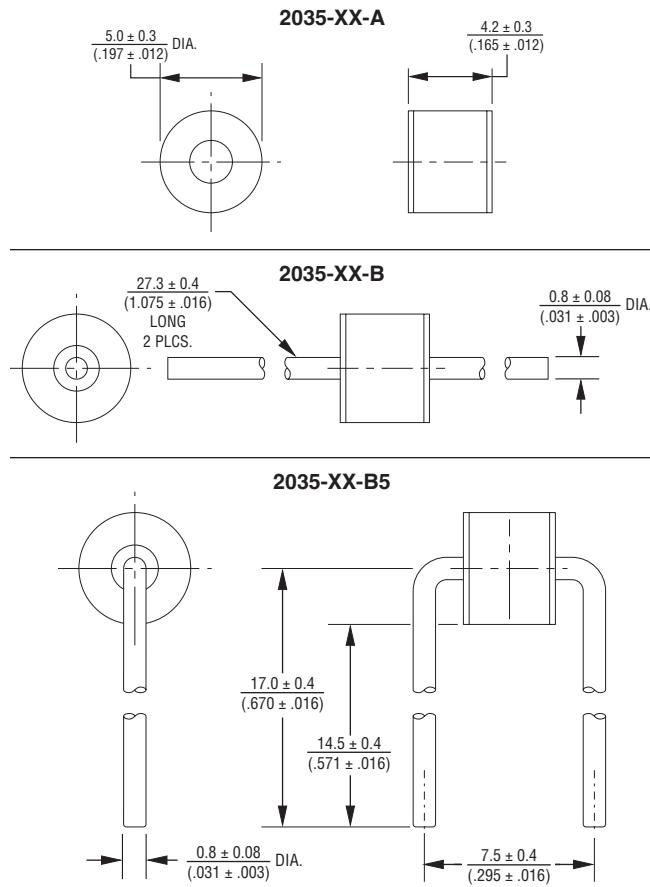
Applications

- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

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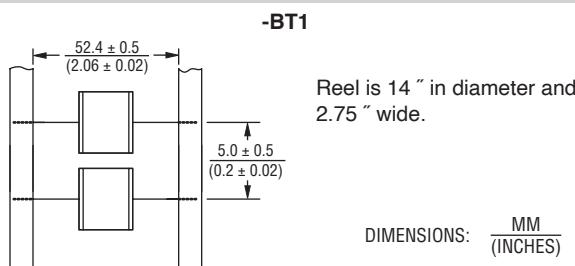
BOURNS®

Product Dimensions



2035-xx-B5 not available in reel pack.

Packaging Specifications



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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2037-xx-B5 not available in reel pack.

How to Order

Model Number Designator	2035/37 - xx - x (n) T1 LF
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 Designator	LF = RoHS Compliant Product

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