

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### **Features**

- 5 mm diameter, 4 mm long (2035 series)
- 5 mm diameter, 5 mm long (2037 series)
- UL Recognized **51**8
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant\* versions available

## **Applications**

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

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

#### **Characteristics**

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

| Characteristic   | Model No.      |                |                |                |                |                |  |
|--|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Characteristic   | 2035/2037-09   | 2035/2037-15   | 2035/2037-20   | 2035/2037-23   | 2035/2037-25   | 2035/2037-30   |  |
| DC Sparkover ±15 %<br>(±20 % for Model 2035/2037-09) @ 100 V/s | 90 V           | 150 V          | 200 V          | 230 V          | 250 V          | 300 V          |  |
| Impulse Sparkover<br>100 V/μs<br>1000 V/μs                     | 300 V<br>550 V | 350 V<br>550 V | 425 V<br>575 V | 450 V<br>600 V | 475 V<br>625 V | 525 V<br>650 V |  |

| Characteristic   | Model No.      |                |                |                |                 |  |  |
|--|----------------|----------------|----------------|----------------|-----------------|--|--|
| Characteristic   | 2035/2037-35   | 2035/2037-40   | 2035/2037-42   | 2035/2037-47   | 2035/2037-60    |  |  |
| DC Sparkover ±15 %<br>(±20 % for Model 2035/2037-09) @ 100 V/s | 350 V          | 400 V          | 420 V          | 470 V          | 600 V           |  |  |
| Impulse Sparkover<br>100 V/µs<br>1000 V/µs                     | 600 V<br>750 V | 650 V<br>800 V | 675 V<br>850 V | 750 V<br>950 V | 950 V<br>1100 V |  |  |

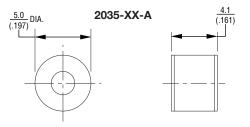
|                                  | 100 V (50 V for Models 2035/2037-09)>  |  |
|----------------------------------|--|--|
|                                  | 10 mA~                                 |  |
| Arc Voltage                      | 1 A~                                   | 10 V   |
| Glow-Arc Transition Current      | 1 A                                    | 0.5 A  |
| Capacitance                      | 1 MHz<                                 | 1 pF   |
| DC Holdover Voltage <sup>1</sup> | 135 V, (52 V for Models 2035/2037-09,< | 150 ms   |
| _                                | 80 V for Models 2035/2037-15)          |  |
|                                  |  |  |
| Impulse Discharge Current        | 10000 A, 8/20 µs²                      | 1 operation min  |
| Impulse Discharge Current        | 10000 A, 8/20 µs²<br>5000 A, 8/20 µs>  |  |
| Impulse Discharge Current        | , I                                    | 10 operations  |
| Impulse Discharge Current        | 5000 A, 8/20 μs>                       | 10 operations<br>300 operations                                      |
|                                  | 5000 A, 8/20 μs><br>100 A, 10/1000 μs> | 10 operations<br>300 operations<br>500 operations                    |
|                                  | 5000 A, 8/20 μs                        | 10 operations<br>300 operations<br>500 operations<br>1 operation min |

#### Notes:

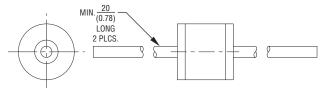
- •UL recognized component, UL File E153537.
- •Model number marking on tube: xxxV.
- •Sparkover limits after life  $\pm 20$  % (-25 %,  $\pm 30$  % for Models 2035/2037-09 and 2035/2037-60) , IR>108  $\Omega$ .
- •Other DC sparkover ranges available on request.
- <sup>1</sup> Network applied.
- <sup>2</sup> DC Sparkover may exceed ±20 % but will continue to protect without venting.

# 2035/2037 Series - Miniature 2-Pole Gas Discharge Tube **BOURNS®**

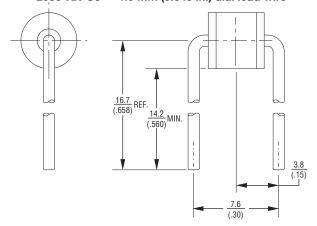
#### **Product Dimensions**



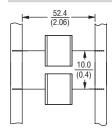
2035-XX-B — 0.8 mm (0.032 in.) dia. lead wire 2035-XX-C — 1.0 mm (0.040 in.) dia. lead wire



2035-XX-B5 — 0.8 mm (0.032 in.) dia. lead wire 2035-XX-C5 — 1.0 mm (0.040 in.) dia. lead wire

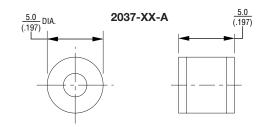


### **Packaging Specifications**

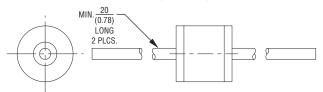


Model 2035/2037-xx-nn ships standard bulk pack, 100 pcs./bag.

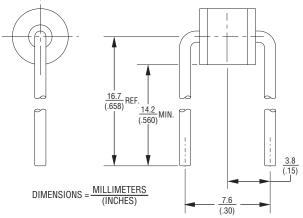
The optional reelpack (-BT1) contains 1,000 pcs./reel. Reel is 14 " in diameter and 2.75 " wide.



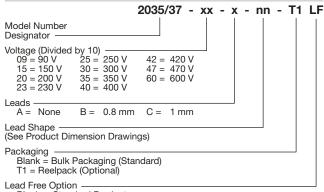
2037-XX-B — 0.8 mm (0.032 in.) dia. lead wire 2037-XX-C — 1.0 mm (0.040 in.) dia. lead wire



2037-XX-B5 — 0.8 mm (0.032 in.) dia. lead wire 2037-XX-C5 — 1.0 mm (0.040 in.) dia. lead wire



### **How To Order**



Blank = Standard Product LF = Lead Free/RoHS Compliant Product