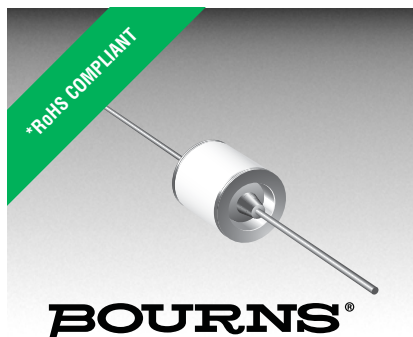




## Features

- Compact size: 5.5 mm diameter, 6 mm length
- Low capacitance
- Low leakage
- RoHS compliant\*
-  UL Recognized

## Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

## 2057 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

### Characteristics

Test Methods per ITU-T K.12 and IEC 61643-311.

| Characteristic                    | Model No. |         |         |         |         |         |
|-----------------------------------|-----------|---------|---------|---------|---------|---------|
|                                   | 2057-07   | 2057-09 | 2057-12 | 2057-13 | 2057-15 | 2057-23 |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 75 V      | 90 V    | 120 V   | 130 V   | 150 V   | 230 V   |
| Impulse Sparkover                 |           |         |         |         |         |         |
| 100 V/ $\mu$ s                    | < 700 V   | < 600 V | < 600 V | < 600 V | < 600 V | < 600 V |
| 1000 V/ $\mu$ s                   | < 800 V   | < 700 V | < 700 V | < 700 V | < 700 V | < 700 V |

| Characteristic                    | Model No. |         |         |          |          |
|-----------------------------------|-----------|---------|---------|----------|----------|
|                                   | 2057-25   | 2057-30 | 2057-35 | 2057-40  | 2057-47  |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 250 V     | 300 V   | 350 V   | 400 V    | 470 V    |
| Impulse Sparkover                 |           |         |         |          |          |
| 100 V/ $\mu$ s                    | < 600 V   | < 700 V | < 700 V | < 800 V  | < 900 V  |
| 1000 V/ $\mu$ s                   | < 700 V   | < 900 V | < 900 V | < 1000 V | < 1100 V |

|                                       |                        |                |
|---------------------------------------|------------------------|----------------|
| Insulation Resistance (IR) NOTE 1     | 50 / 100 / 250 Vdc     | > 1 G $\Omega$ |
| Glow Voltage                          | 10 mA                  | ~ 70 V         |
| Arc Voltage                           | 1 A                    | ~ 10 V         |
| Glow-Arc Transition Current           |                        | < 1 A          |
| Maximum Capacitance                   | 1 MHz                  | < 1 pF         |
| Maximum Impulse Discharge Current     | 10,000 A, 8/20 $\mu$ s | 1 operation    |
|                                       | 5,000 A, 8/20 $\mu$ s  | 10 operations  |
| Nominal Alternating Discharge Current | 5 A, 50 Hz, 1 second   | 1 operation    |
|                                       | 15 A, 9 cycles         | 1 operation    |
| Impulse Life                          | 100 A, 10/1000 $\mu$ s | 300 operations |
| DC Holdover Voltage NOTE 2            |                        | < 150 ms       |
| Operating Temperature                 |                        | -40 to +90 °C  |
| Storage Temperature                   |                        | -40 to +90 °C  |
| Climatic Category (IEC 60068-1)       |                        | 40 / 90 / 21   |

#### Notes:

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859

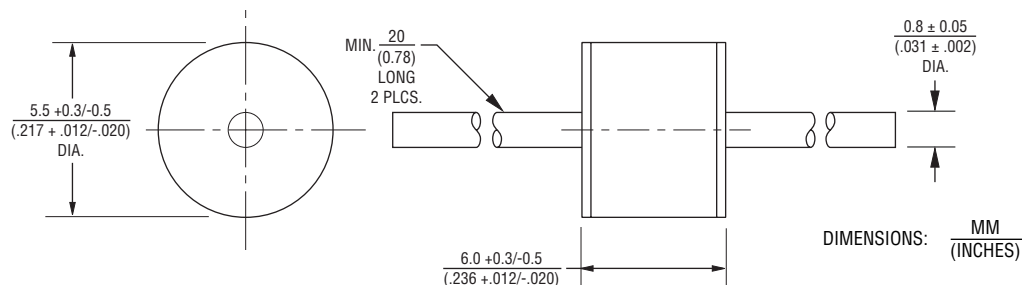
|         |                             |                             |
|---------|-----------------------------|-----------------------------|
| Note 1: | <u>DC Sparkover Voltage</u> | <u>DC Measuring Voltage</u> |
|         | 75–90 V                     | 50 V                        |
|         | 120–400 V                   | 100 V                       |
|         | 470 V                       | 250 V                       |

|         |                        |                            |
|---------|------------------------|----------------------------|
| Note 2: | <u>Network Applied</u> | <u>DC Holdover Voltage</u> |
|         | 75–145 V               | 52 V                       |
|         | 230–250 V              | 80 V                       |
|         | 300–470 V              | 150 V                      |

# 2057 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

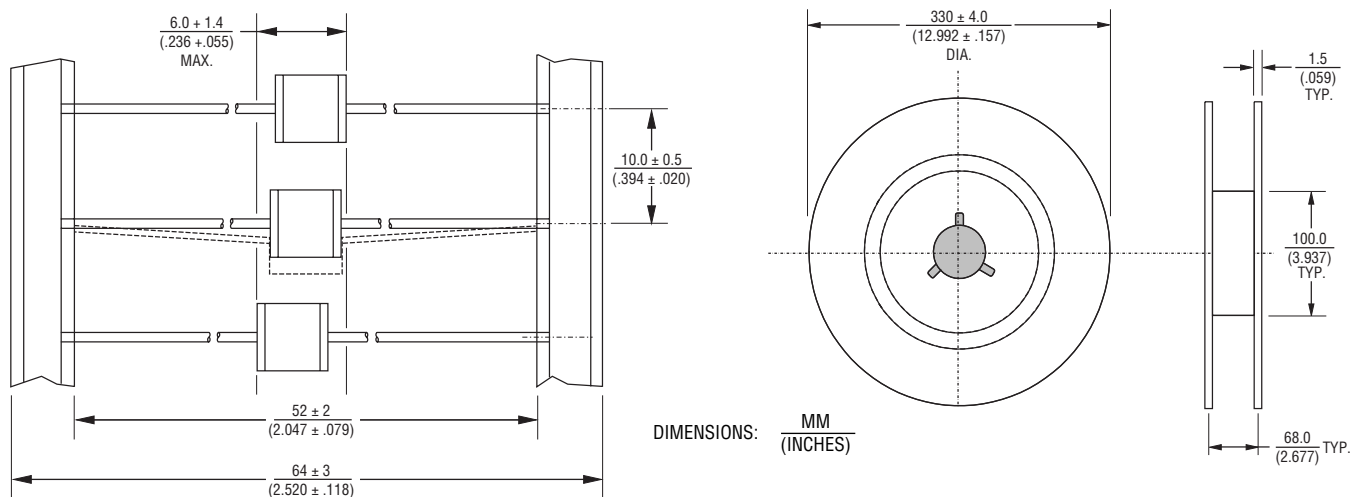
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## Product Dimensions



## Packaging Specifications

Model 2057 ships standard bulk, 100 pcs. per tray; 5 trays per box (500 units). The optional reelpack (-BT1) contains 500 pcs. per reel; 2 reels per box (1K units).



## How to Order

2057 - xx - B T1 LF

Model Number Designator

Voltage (Divided by 10)

|            |            |
|------------|------------|
| 07 = 75 V  | 25 = 250 V |
| 09 = 90 V  | 30 = 300 V |
| 12 = 120 V | 35 = 350 V |
| 13 = 130 V | 40 = 400 V |
| 15 = 150 V | 47 = 470 V |
| 23 = 230 V |            |

Leads

B = 0.8 mm

Packaging

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

RoHS Compliance

LF = RoHS Compliant Product

**BOURNS®**

### Asia-Pacific:

Tel: +886-2 2562-4117

Fax: +886-2 2562-4116

### Europe:

Tel: +41-41 768 5555

Fax: +41-41 768 5510

### The Americas:

Tel: +1-951 781-5500

Fax: +1-951 781-5700

[www.bourns.com](http://www.bourns.com)

REV. A 06/12

Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.