



## Features

- Size: 11.8 mm diameter, 17 mm length
- 100 kA surge rating
- High power handling
- Low leakage
- RoHS compliant\*
-  UL Recognized

## Applications

- Telecommunications equipment
- Industrial equipment/electronics

## 2063 Series High-Current 2-Electrode Gas Discharge Tube

### Characteristics

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

| Characteristic                    | Model No. |         |         |         |          |
|-----------------------------------|-----------|---------|---------|---------|----------|
|                                   | 2063-23   | 2063-25 | 2063-30 | 2063-35 | 2063-42  |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 230 V     | 250 V   | 300 V   | 350 V   | 420 V    |
| Impulse Sparkover <sup>(1)</sup>  |           |         |         |         |          |
| 100 V/ $\mu$ s                    | < 600 V   | < 600 V | < 700 V | < 800 V | < 900 V  |
| 1000 V/ $\mu$ s                   | < 700 V   | < 700 V | < 800 V | < 900 V | < 1000 V |

| Characteristic                    | Model No. |          |          |          |
|-----------------------------------|-----------|----------|----------|----------|
|                                   | 2063-47   | 2063-60  | 2063-70  | 2063-80  |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 470 V     | 600 V    | 700 V    | 800 V    |
| Impulse Sparkover <sup>(1)</sup>  |           |          |          |          |
| 100 V/ $\mu$ s                    | < 900 V   | < 1100 V | < 1200 V | < 1300 V |
| 1000 V/ $\mu$ s                   | < 1100 V  | < 1300 V | < 1400 V | < 1500 V |

<sup>(1)</sup> Impulse Sparkover voltage is defined as typical values of distribution.

|                                           |                         |                  |
|-------------------------------------------|-------------------------|------------------|
| Insulation Resistance (IR) <sup>(2)</sup> | 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                   | < 10 pF          |
| Maximum Impulse Discharge Current         | 100,000 A, 8/20 $\mu$ s | 1 operation      |
|                                           | 60,000 A, 8/20 $\mu$ s  | 5 operations     |
| Nominal Alternating Discharge Current     | 60 A, 50 Hz, 1 second   | 1 operation      |
|                                           | 300 A, 9 cycles         | 1 operation      |
| Impulse Life                              | 500 A, 10/1000 $\mu$ s  | > 400 operations |
| DC Holdover Voltage <sup>(3)</sup>        |                         | < 150 ms         |
| Operating Temperature                     |                         | -30 to +85 °C    |
| Storage Temperature                       |                         | -40 to +115 °C   |
| Climatic Category (IEC 60068-1)           |                         | 40 / 90 / 21     |

#### Notes:

- UL Recognized component, UL File E313168.
- At delivery AQL 0.65, level II DIN ISO 2859

|                                     |                      |
|-------------------------------------|----------------------|
| <sup>(2)</sup> DC Sparkover Voltage | IR Measuring Voltage |
| 230–400 V                           | 100 V                |
| 420–800 V                           | 250 V                |

|                                |                     |
|--------------------------------|---------------------|
| <sup>(3)</sup> Network Applied |                     |
| DC Sparkover Voltage           | DC Holdover Voltage |
| 230–250 V                      | 135 V               |
| 300–800 V                      | 150 V               |

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

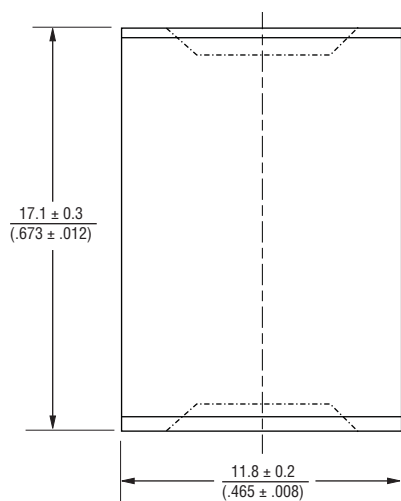
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

## 2063 Series High-Current 2-Electrode Gas Discharge Tube

**BOURNS®**

### Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

### How to Order

Model Number Designator **2063 - xx - A LF**

Voltage (Divided by 10)

|            |            |
|------------|------------|
| 23 = 230 V | 47 = 470 V |
| 25 = 250 V | 60 = 600 V |
| 30 = 300 V | 70 = 700 V |
| 35 = 350 V | 80 = 800 V |
| 42 = 420 V |            |

Leads

A = No Leads

Packaging

(Blank) = Bulk Packaging - 35 pcs./tray (Standard)

RoHS Compliancy

LF = RoHS Compliant Product

### Packaging Specifications

Model 2063 ships standard bulk, 35 pcs. per tray; 105 pcs. per box.

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