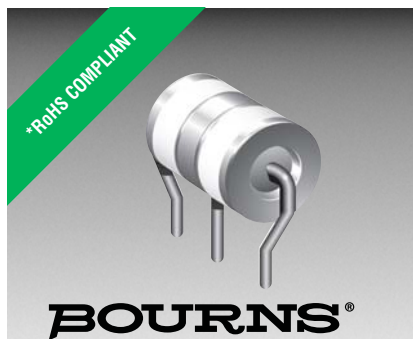




Features

- Compact size: 6 mm diameter, 8 mm length
- Low capacitance and insertion loss
- Switch-Grade Fail-Short option available
- RoHS compliant*
-  UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2056 Series Light Duty 3-Electrode Gas Discharge Tube

Characteristics

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

Characteristic	Model No.				
	2056-09	2056-14	2056-20	2056-23	2056-25
DC Sparkover $\pm 20\%$ @ 100 V/s	90 V	145 V	200 V	230 V	250 V
Impulse Sparkover ⁽¹⁾					
100 V/ μ s	< 750 V	< 750 V	< 600 V	< 600 V	< 600 V
1000 V/ μ s	< 850 V	< 850 V	< 700 V	< 700 V	< 700 V

Characteristic	Model No.				
	2056-35	2056-40	2056-42	2056-47	2056-60
DC Sparkover $\pm 20\%$ @ 100 V/s	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover ⁽¹⁾					
100 V/ μ s	< 650 V	< 700 V	< 700 V	< 800 V	< 900 V
1000 V/ μ s	< 750 V	< 800 V	< 800 V	< 900 V	< 1000 V

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

Insulation Resistance (IR) ⁽²⁾	50 / 100 / 250 Vdc	> 1 G Ω
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 1 A
Maximum Capacitance	1 MHz	< 2 pF
Maximum Impulse Discharge Current	5,000 A, 8/20 μ s	10 operations
Nominal Alternating Discharge Current	5 A, 50 Hz, 1 second	1 operation
Impulse Life	200 A 10/1000 μ s	100 operations
DC Holdover Voltage ⁽³⁾		< 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 E153537.
- At delivery AQL 0.65, level II DIN ISO 2859
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground voltage.
- Discharge current rating is total current equally divided between Each Line To Ground (ELTG).

⁽²⁾ DC Sparkover Voltage	IR Measuring Voltage
90 V	50 V
145–400 V	100 V
420–600 V	250 V

⁽³⁾ Network Applied	
DC Sparkover Voltage	DC Holdover Voltage
90–145 V	52 V
200–250 V	135 V
350–600 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.

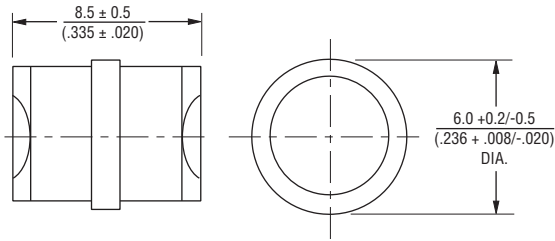
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

2056 Series Light Duty 3-Electrode Gas Discharge Tube

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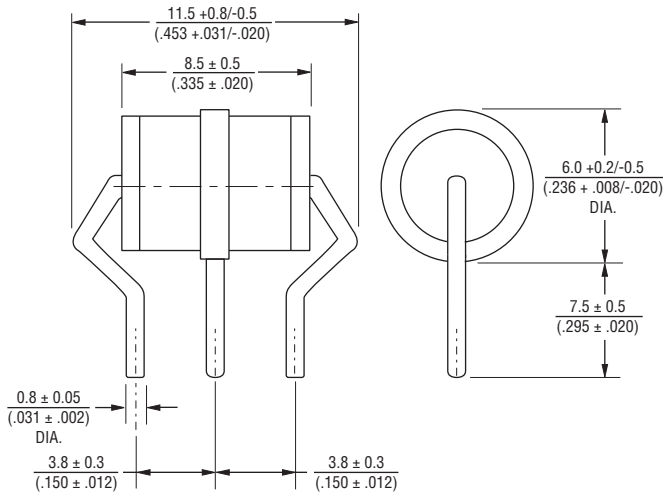
Product Dimensions

2056-xx-A



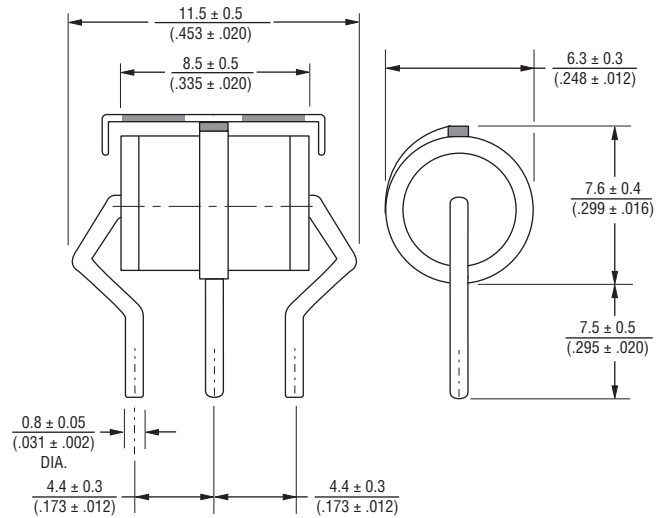
2056-xx-B3

0.8 mm dia., 3.8 mm spacing



2056-xx-B2

0.8 mm dia., 4.4 mm spacing
(B2FLF Switch-Grade Fail-Short Configuration Shown)



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

How to Order

2056 - xx - xx (F) LF

Model Number Designator

Voltage (Divided by 10)

09 = 90 V	35 = 350 V
14 = 145 V	40 = 400 V
20 = 200 V	42 = 420 V
23 = 230 V	47 = 470 V
25 = 250 V	60 = 600 V

Leads

A = No leads/Cassette Applications
B2 = 0.8 mm dia., 4.4 mm spacing
B3 = 0.8 mm dia., 3.8 mm spacing

Switch-Grade Fail-Short Option

(Blank) = None
F = Fail-Short Device (Optional)

RoHS Compliance

LF = RoHS Compliant Product

Packaging Specifications

Model 2056 ships standard bulk pack, 100 pieces per tray; 5 trays per box, 2 boxes per outer pack (1K units).

REV. B 08/15

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