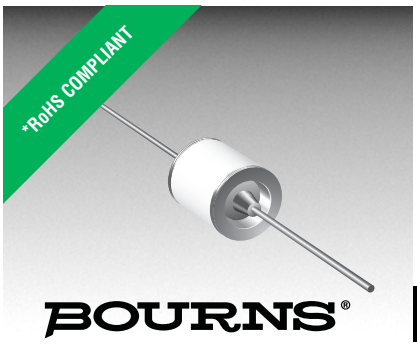

Features

- 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 ±20 % @ 100 V/s	75 V	90 V	120 V	130 V	150 V	230 V
Impulse Sparkover						
100 V/μs	< 700 V	< 600 V	< 600 V	< 600 V	< 600 V	< 600 V
1000 V/μs	< 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 ±20 % @ 100 V/s	250 V	300 V	350 V	400 V	470 V
Impulse Sparkover					
100 V/μs	< 600 V	< 700 V	< 700 V	< 800 V	< 900 V
1000 V/μs	< 700 V	< 900 V	< 900 V	< 1000 V	< 1100 V

Insulation Resistance (IR) NOTE 1	50 / 100 / 250 Vdc		> 1 GΩ
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 μs		1 operation
	5,000 A, 8/20 μs		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 μs		300 operations
DC Holdover Voltage NOTE 2			< 150 ms
Operating Temperature			-40 to +90 ºC
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:

DC Sparkover Voltage	DC Measuring Voltage
75–90 V	50 V
120–400 V	100 V
470 V	250 V

Note 2: Network Applied

DC Sparkover Voltage	DC Holdover Voltage
75–145 V	52 V
230–250 V	80 V
300–470 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.
Customers should verify actual device performance in their specific applications.

2057 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

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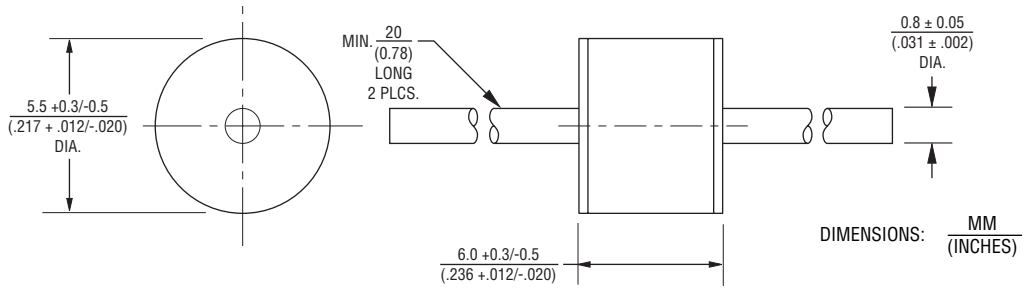
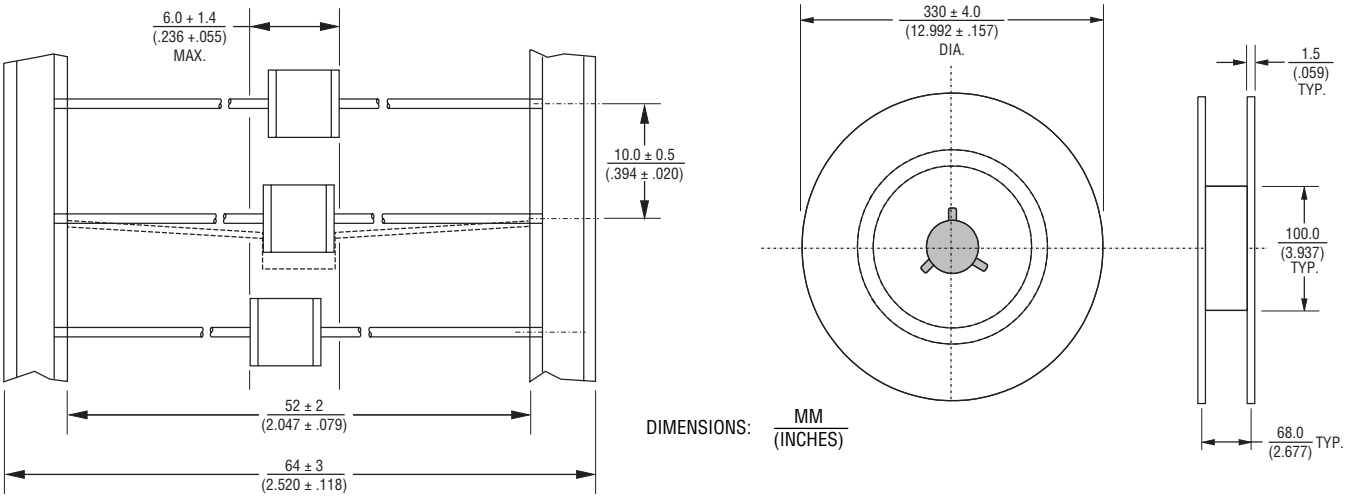
Product Dimensions



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 Compliancy
LF = RoHS Compliant Product

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