

Features

- Size: 5 mm diameter, 7.2 mm length
- Surface mount design
- Symmetrical breakdown voltage (L-L, L-G)
- Low capacitance and insertion loss
- **TU**® UL Recognized
- RoHS compliant*

Additional Information

Click these links for more information:









2052 Series Light Duty 3-Electrode Symmetrical Gas Discharge Tube

Characteristics

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

Characteristic	Model No.							
	2052-23	2052-25	2052-35	2052-40	2052-42	2052-47	2052-60	2052-80
DC Sparkover ±20 % @ 100 V/s (L-L, L-G)	230 V	250 V	350 V	400 V	420 V	470 V	600 V	800 V
Impulse Sparkover (L-L, L-G) ⁽¹⁾ 100 V/µs 1000 V/µs	< 600 V < 700 V	< 600 V < 700 V	< 650 V < 750 V	< 700 V < 800 V	< 700 V < 800 V	< 800 V < 900 V	< 900 V < 1000 V	< 1150 V < 1400 V

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

Insulation Resistance (IR) (2)	100/250 Vdc	>1 GΩ
Glow Voltage	10 mA	~70 V
	1 A	
Glow-Arc Transition Current		<1 A
	1 MHz	
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 sec	1 operation
	20 A, 9 cycles	1 operation
Impulse Life	200 A, 10/1000 μs	150 operations
DC Holdover Voltage (3)	>135 V	<150 ms
Storage Temperature		-40 to +115 °C

Notes:

- •• UL Recognized component: Model 2052-80 = UL File E313168; All other models = UL File E153537.
- At delivery AQL 0.65 AQL Level II, DIN ISO 2859.
- The rated discharge current is the total current equally divided between each line to ground (ELTG).
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

DC Sparkover Voltage IR Measuring Voltage

145-400 V 100 V 250 V 420-800 V

(3) Network Applied.

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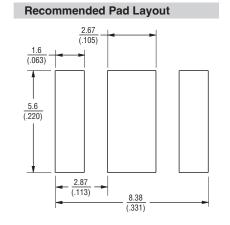
Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

Product Dimensions

2052 Series Light Duty 3-Electrode Symmetrical Gas Discharge Tube

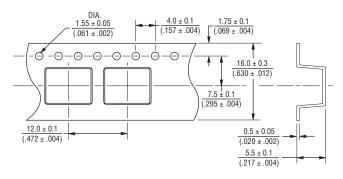
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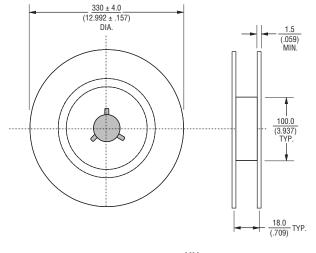


How to Order 2052 - xx - SM - RP LF Model Number Designator Voltage (Divided by 10) 23 = 230 V 25 = 250 V 35 = 350 V40 = 400 V42 = 420 V47 = 470 V 60 = 600 V80 = 800 VSurface Mount Packaging RP = Reel Pack RoHS Compliancy LF = RoHS Compliant Product

Packaging Specifications

Model 2052-xx-SM-RPLF (Reel Pack) contains 900 pieces per reel, 2,700 pieces per box. The reel is 330 mm in diameter and 18 mm wide.





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

REV. C 07/25

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