




Features

- Size: 4 mm diameter, 4.2 mm length
- Mini-surface mount footprint
- Low capacitance
- High insulation resistance
- RoHS compliant*
-  UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2053 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

Characteristics

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

Characteristic	Model No.				
	2053-07	2053-09	2053-14	2053-23	2053-25
DC Sparkover $\pm 20\%$ @ 100 V/s	75 V	90 V	145 V	230 V	250 V
Impulse Sparkover					
100V/ μ s	< 700 V	< 700 V	< 700 V	< 600 V	< 600 V
1000V/ μ s	< 800 V	< 800 V	< 800 V	< 700 V	< 700 V

Characteristic	Model No.				
	2053-30	2053-35	2053-40	2053-47	2053-60
DC Sparkover $\pm 20\%$ @ 100 V/s	300 V	350 V	400 V	470 V	600 V
Impulse Sparkover					
100V/ μ s	< 600 V	< 650 V	< 700 V	< 800 V	< 900 V
1000V/ μ s	< 700 V	< 800 V	< 800 V	< 900 V	< 1000 V

Insulation Resistance (IR) NOTE 1.....	50/100/250 V	> 1 G Ω
Glow Voltage	10 mA.....	~ 70 V
Arc Voltage	>1 A.....	~ 10 V
Glow-Arc Transition Current		< 1 A
Capacitance.....	1 MHz	0.5 pF typical
Maximum Impulse Discharge Current	5,000 A, 8/20 μ s.....	1 operation
	3,000 A, 8/20 μ s.....	10 operations
Nominal Alternating Discharge Current	3 A, 50 Hz, 1 second.....	1 operation
	6 A, 9 cycles.....	1 operation
Impulse Life	100 A, 10/1000 μ s.....	300 operations
DC Holdover Voltage NOTE 2		< 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.

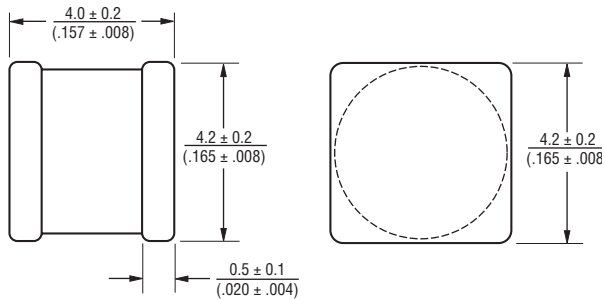
Note 1:	<u>DC Sparkover Voltage</u>	<u>DC Measuring Voltage</u>
	75–90 V	50 V
	120–400 V	100 V
	470–600 V	250 V

Note 2:	<u>Network Applied</u>	<u>DC Holdover Voltage</u>
	DC Sparkover Voltage	
	75–145 V	52 V
	230–250 V	80 V
	300–600 V	150 V

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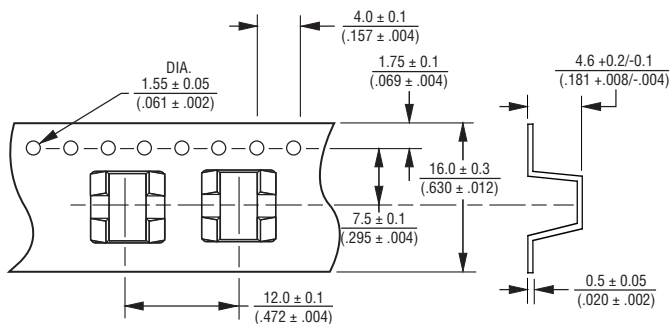
Product Dimensions



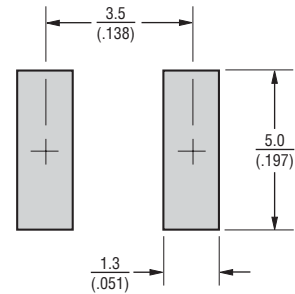
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Packaging Specifications

The Model 2053-xx-SM ships standard reelpack (-RP), 900 pieces per reel, 2,700 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



Recommended Pad Layout



How to Order

2053 - xx - SM - RP LF

Model Number Designator _____

Voltage (Divided by 10) _____

07 = 75 V	30 = 300 V
09 = 90 V	35 = 350 V
14 = 145 V	40 = 400 V
23 = 230 V	47 = 470 V
25 = 250 V	60 = 600 V

Surface Mount _____

Packaging _____
 RP = Reelpack

RoHS Compliancy _____
 LF = RoHS Compliant Product

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