

### **Features**

- Surface mount
- Compact mini-size 5 x 7.2 mm
- Economical
- Low capacitance and insertion loss
- UL Recognized **3**
- RoHS compliant\*

## 2054 Series Surface Mount Gas Discharge Tube Surge Protector

Bourns offers a low-cost, 3-electrode surface mount GDT surge protection device. The 2054 Series is ideal for broadband protection due to its ultra-low capacitance. The 2054 Series offers superior protection characteristics suitable for telecommunications, commercial and industrial applications.

### Characteristics

Test Methods per ITU-T (CCITT) K.12, IEEE C62.31

Characteristic	Model No.				
	2054-23	2054-30	2054-35	2054-42	2054-47
DC Sparkover ±20 % @ 100 V/s	230 V	300 V	350 V	420 V	470 V
Impulse Sparkover <sup>(1)</sup>					
100 V/μs	550 V	700 V	700 V	800 V	800 V
1000 V/μs	650 V	800 V	800 V	900 V	900 V

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

Insulation Resistance (IR)	100 V	>109 Ω
	1 MHz	
	>135 V (80 V for 2054-23)	
	5000 A, 8/20 μs	
	200 A, 10/1000 μs	100 operations
Alternating Discharge Current	5 Arms, 1 sec., 50 Hz	1 operation minimum
Operating Temperature		30 to +85 °C

#### Notes

- UL Recognized component, UL File E153537.
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground voltage.
- The rated discharge current is the total current equally divided between each line to ground.
- Surface Mount (SM) parts may show a temporary increase in DCBD after the solder reflow process. Most devices will recover within 24 hours time. It should be noted that there is no quality defect nor change in protection levels during the temporary change in DCBD.
- At delivery AQL 0.65 AQL Level II, DIN ISO 2859
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

### **BOURNS**®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 885 877 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

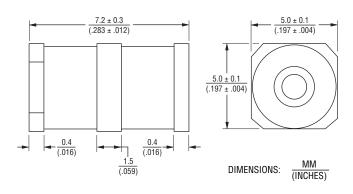
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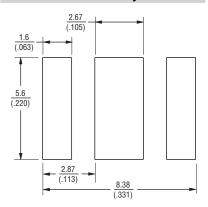
<sup>(2)</sup> Network applied.

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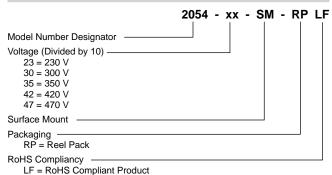
### **Product Dimensions**



### **Recommended Pad Layout**



### **How to Order**



### **Packaging Specifications**

Model 2054-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.

