imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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.				
Characteristic	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 ⁽¹⁾					
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

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

Insulation Resistance (IR)		>109 Ω
Capacitance		
DC Holdover Voltage (2)	>135 V (80 V for 2054-23)	<150 ms
Impulse Discharge Current		5 operations
	200 A, 10/1000 µs	100 operations
Alternating Discharge Current		
Operating Temperature		30 to +85 °C
Climatic Category (IEC 60068-1)		40/90/21

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.

(2) Network applied.

BOURNS

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*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

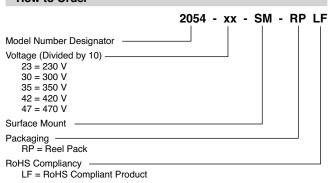
Specifications are subject to change without notice.

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.

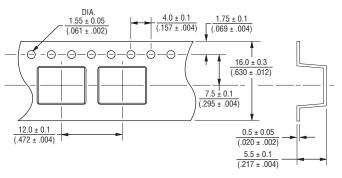
2054 Series Surface Mount Gas Discharge Tube Surge Protector

BOURNS

Product Dimensions Recommended Pad Layout <u>2.67</u> (.105) 1.6 7.2 ± 0.3 5.0 ± 0.1 (.063) (.283 ± .012) (.197 ± .004) <u>5.6</u> (.220) $\frac{5.0 \pm 0.1}{(.197 \pm .004)}$ 0.4 0.4 2.87 (.113) (.016) (.016) 1.5 8.38 (.331) MM DIMENSIONS: (.059) (INCHES) 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.



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REV. F 08/15