Features

- Leadless, surface mount for economical assembly
- Compact mini-size
- Low capacitance and insertion loss
- RoHS compliant*
- UL Recognized

2055 Series Gas Discharge Tube Surge Protector

Bourns offers a low-cost surface mount (SM) 2-electrode GDT surge protection device. The 2055 Series is ideal for broadband protection due to its ultra-low capacitance. The 2055 Series offers superior protection characteristics suitable for telecommunications, commercial and industrial applications.

Characteristics

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

Characteristic	Model No.					
	2055-23	2055-25	2055-30	2055-35	2055-40	2055-60
DC Sparkover ± 20 % @ 100 V/s	230 V	250 V	300 V	350 V	400 V	600 V
Impulse Sparkover (1)						
100V/μs	450 V	450 V	500 V	600 V	600 V	800 V
1000V/μs	550 V	550 V	600 V	750 V	700 V	900 V

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

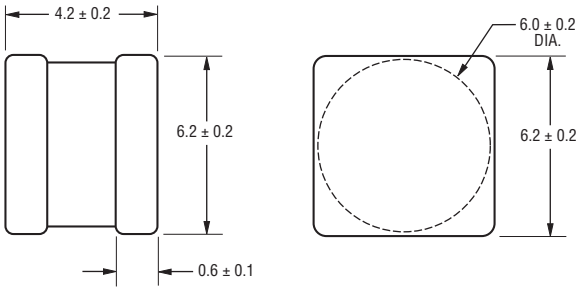
Insulation Resistance (IR) ..... 100 V ..... $> 10^{10}$ Ω
Glow Voltage ..... 10 mA..... ~ 80 V
Arc Voltage ..... >2 A..... ~ 12 V
Glow-Arc Transition Current ..... < 1 A
Capacitance..... 1 MHz ..... 0.6 pF typical
DC Holdover Voltage (2) ..... >150 V ..... < 150 ms
Impulse Discharge Current..... 2500 A, 8/20 μs..... 10 operations
100 A, 10/1000 μs..... > 300 operations
10 A, 10/1000 μs..... > 1500 operations
Alternating Discharge Current ..... 10 Arms, 9 cycles..... 1 operation min.
2.5 Arms, 1 sec, 50 Hz..... 10 operations
Operating Temperature..... -30 to +85 °C

Notes:
- UL Recognized component, UL File E153537.
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- 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.
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

(2) Network applied.

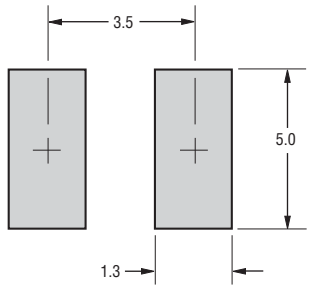
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

Product Dimensions



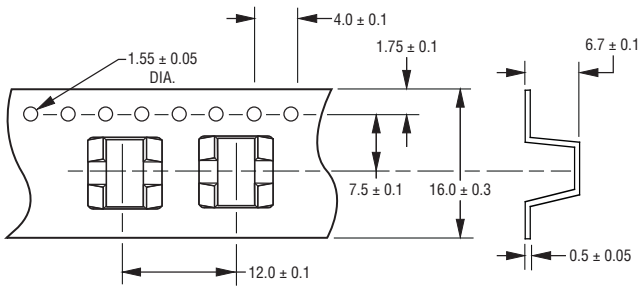
DIMENSIONS: MILLIMETERS

Recommended Pad Layout



Packaging Specifications

The Model 2055-xx-SM ships standard reelpack (-RP), 800 pieces per reel, 2,400 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



How to Order

2055 - xx - SM - RP LF

Model Number Designator

Voltage (Divided by 10)

Surface Mount

Packaging
RP = Reelpack

RoHS Compliancy
LF = RoHS Compliant Product

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