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Features

- Leadless, surface mount for economical assembly
 - Compact mini-size
 - High surge current rating
 - Low capacitance and insertion loss
 - Stable breakdown throughout life
-  UL Recognized
 - RoHS compliant* version available

2035-xx-SM Precision Gas Discharge Tube Surge Protector

Bourns now offers a surface mount (SM) 2-electrode GDT surge protection device. The industry-leading quality and features of the Bourns® miniature 2035 Series GDT continue in this new SM version. Compatible with “pick and place” assembly systems, the SM is ideal for high-density applications such as PCBs for telecommunications, commercial and industrial applications.

Characteristics

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

Characteristic	Model No.					
	2035-09	2035-15	2035-20	2035-23	2035-25	2035-30
DC Sparkover ±15 % (±20 % for Model 2035-09) @ 100 V/s	90 V	150 V	200 V	230 V	250 V	300V
Impulse Sparkover ⁽¹⁾						
100 V/μs	350 V	400 V	425 V	450 V	475 V	525 V
1000 V/μs	525 V	550 V	575 V	600 V	625 V	650 V

Characteristic	Model No.				
	2035-35	2035-40	2035-42	2035-47	2035-60
DC Sparkover ±15 % @ 100 V/s (-12 %, +15 % for Model 2035-60) @ 100 V/s	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover ⁽¹⁾					
100 V/μs	600 V	650 V	675 V	750 V	950 V
1000 V/μs	750 V	800 V	850 V	950 V	1100 V

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

Insulation Resistance (IR)	100 V (50 V for Model 2035-09)	> 10 ¹⁰ Ω
Glow Voltage	10 mA	~ 70 V
Arc Voltage	> 1 A	~ 10 V
Glow-Arc Transition Current	< 0.5 A
Capacitance.....	1 MHz	< 1 pF
DC Holdover Voltage ⁽²⁾	> 135 V, (52 V for Model 2035-09,	< 150 ms
	80 V for Model 2035-15)	
Impulse Discharge Current.....	10000 A, 8/20 μs ⁽³⁾	1 operation minimum
	5000 A, 8/20 μs	> 10 operations
	1000 A, 10/350 μs	1 operation
	100 A, 10/1000 μs	> 300 operations
	100 A, 10/700 μs	> 500 operations
Alternating Discharge Current	20 Arms, 11 cycles ⁽³⁾	1 operation minimum
	5 Arms, 1 s	> 10 operations
Operating Temperature.....	-55 to +85 °C
Climatic Category (IEC 60068-1).....	40/90/21

Notes:

- **UL Recognized component, UL File E153537**
- 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.
- Sparkover limits after life ±20 % (-25 %, +30 % for Model 2035-09, 2035-60), IR > 10⁸.
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

⁽²⁾ Network applied.

⁽³⁾ Tube may exceed ±20 % but will continue to protect without venting.

*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.

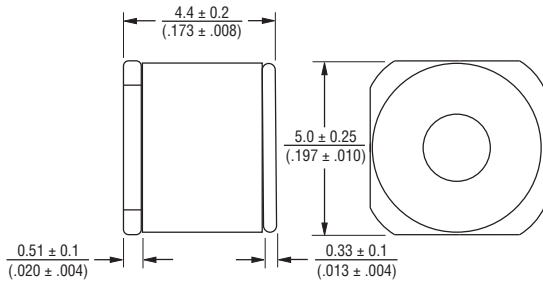
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

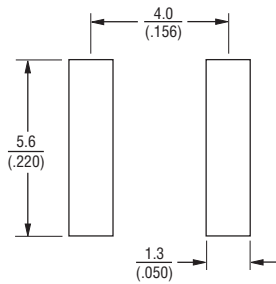
2035-xx-SM Precision Gas Discharge Tube Surge Protector

BOURNS®

Product Dimensions



Recommended Pad Layout



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

How to Order

2035 - xx - SM - RP LF

Model Number Designator

Voltage

Surface Mount

Packaging Options

Blank = Bulk Packaging (Standard)

RP = Reelpack (Optional)

RP3 = Reelpack (Optional)

RP4 = Reelpack (Optional)

RoHS Compliant Option

Blank = Standard Product

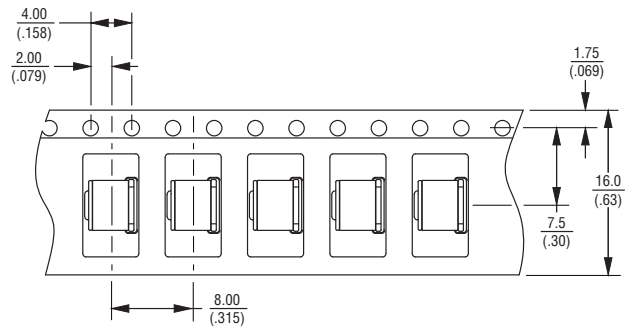
LF = RoHS Compliant Product

Packaging Specifications

Model	Standard Packaging Quantity			
	Bulk(Bag)	Tray	Box	Reel
2035-SM	250		1000	
2035-SM-RP				1500
2035-SM-RP3				1000
2035-SM-RP4				1000

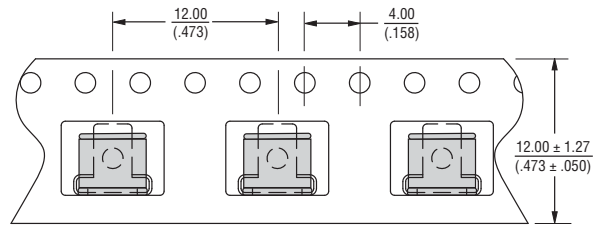
-RP

Reel is 13 inches in diameter and 3/4 inch wide.



-RP3

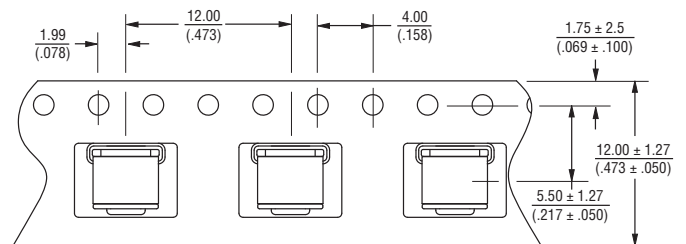
Reel is 13 inches in diameter and 11/16 inch wide.



-RP4

Reel is 13 inches in diameter and 11/16 inch wide.

RP4 features the GDTs placed upside-down inside the carrier tape.



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

Unless otherwise specified, tolerances in decimals are .X ± 0.3, .XX ± 0.15 for lengths in millimeters and ±1 ° for degrees.

REV. O 08/15

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