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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Features

- Wide operating temperature range (-55 °C to +125 °C)
- Stable performance over temperature range
- Long life design
- Low capacitance
- Small size
- UL Recognized

RoHS compliant*

Applications

- Outdoor communications equipment
- Equipment exposed to harsh environments

2036-xx-SM-H High Temperature Rated GDT Surge Protector

The Bourns® Model 2036 High Temperature Rated TRIGARD™ Series is a 3-electrode Gas Discharge Tube (GDT) Surge Protection device. The surface mount device provides robust performance and balanced protection in a small 5 mm diameter package. The Model 2036 High Temperature Series provides stable and long term performance over a wide temperature range, making it ideal for applications and equipment exposed to harsh environments.

Characteristics

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

Characteristic	Model No.					
	2036-09	2036-15	2036-23	2036-35	2036-47	2036-60
DC Sparkover ±25 % @ 100 V/s (1) (2)	90 V	150 V	230 V	350 V	470 V	600 V
Impulse Sparkover ⁽³⁾ 100 V/μs 1000 V/μs	250 V 550 V	350 V 500 V	450 V 600 V	600 V 750 V	750 V 950 V	850 V 1100 V

Nominal Insulation Resistance (IR)		10 ¹⁰ Q initially
Glow Voltage Arc Voltage Glow-Arc Transition Current	1 A	~ 10 V
Glow-Arc Transition Current	1 MHz	
	>135 V, (52 V for Model 2036-09,	
Nominal Impulse Discharge Current ⁽⁵⁾	80 V for Model 2036-15) 	10 operations
Alternating Discharge Current	2000 A, 10/1350 μs 2000 A, 10/350 μs 20 Arms, 1 s ² 10 Arms, 1 s	1 operation
Operating Temperature Climatic Category (IEC 60068-1) Moisture Sensitivity Level		

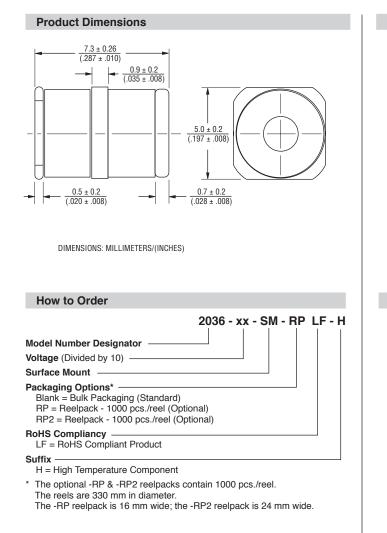
Notes:

- (1) In ionized mode
- (2) At delivery AQL 0.65 Level II, DIN ISO 2859
- (3) Impulse sparkover value is defined as typical values of distribution
- (4) Network applied per ITU K.12
- ⁽⁵⁾ Total current through center electrode, half value each end electrode to center electrode
- (6) DC Sparkover limit may exceed +25 %; GDT will continue to protect as designed
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Center electrode breakdown voltage values .
- Bourns recommends soldering surface mount devices per IPC/JEDEC J-STD-020 rev. D
- . Test methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards
- DC Sparkover limits after life ± 25 % (-25 %,+30 % for Model 2036-09 and 2036-60), IR >10⁸ Ω
- UL Recognized component, UL File E153537

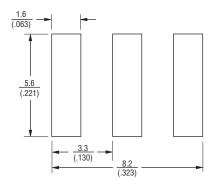
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2036-xx-SM-H High Temperature Rated GDT Surge Protector

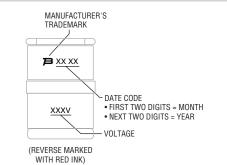
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Recommended Pad Layout



Typical Part Marking



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

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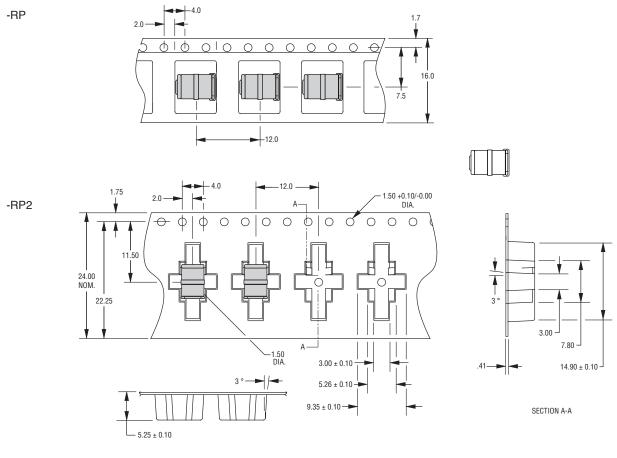
2036-xx-SM-H High Temperature Rated GDT Surge Protector

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Packaging Specifications

The Model 2036-xx-SM-H ships standard bulk pack, 250 pieces per bag, 4 bags per box.

The optional -RP & -RP2 reelpacks contain 1,000 pcs./reel. The reels are 330 mm in diameter. The -RP reelpack is 16 mm wide. The -RP2 reelpack is 24 mm wide.



TOLERANCES: 0.13 UNLESS OTHERWISE NOTED

DIMENSIONS: MILLIMETERS



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