

## Features

- Miniature 0201 package
- Fast response time to ESD strikes (<1 ns)
- Bidirectional protection
- Low clamping voltage
- Low leakage current
- RoHS compliant\*

## **Applications**

- Smart phones
- Tablets
- Handheld devices
- Embedded components
- Scanners
- Notebooks

## ChipGuard <sup>®</sup> MLA Series µVaristor ESD Clamp Protector

### Description

Bourns® ChipGuard® MLA Series µVaristor ESD Clamp Protectors are based on multilayer metal oxide varistor technology. Bidirectional ESD protection is provided in a miniature 0201 package, making it one of the smallest protectors available on the market today. The series is ideally suited for space-constrained applications where circuit board space is at a premium.

#### Electrical Characteristics @ 25 °C (unless otherwise noted)

Model	Vrms (V)	VDC (V)	VN Min. (V)	VN Max. (V)	VC (V)	ITM (Max.) (A)	WTM (Max.) (J)	СР (pF) Тур.
	<10 µA		1 mA DC		1 Α @ 8/20 μs	@ 8/20 µs	10/1000 µs	@ 1 MHz
CG0201MLA-5.5MH	4	5.5	8	14	28	_	—	32

#### **General Characteristics**

Operating Temperature	40 °C to +85 °C
Storage Temperature	
Response Time	<1 ns
Performance Standard	IEC 61000-4-2

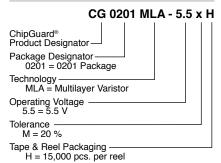
#### **Environmental Characteristics**

Characteristic	Speci⊠cation	Test Condition		
Bias Humidity		90 % RH, 40 °C, Working Voltage, 1000 Hours		
Thermal Shock	ΔVn/Vn ≤ 10 %	-40 °C to +85 °C, 30 Minute Cycle, 5 Cycles Total		
Load Test	-	Working Voltage, 85 °C, 1000 Hours		

## Device Symbol



#### How to Order



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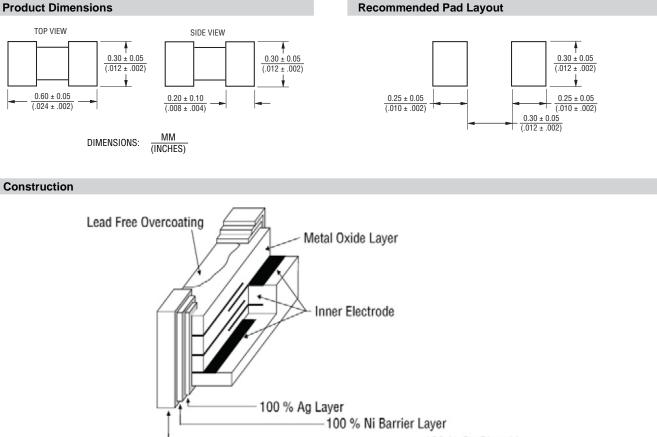
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\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

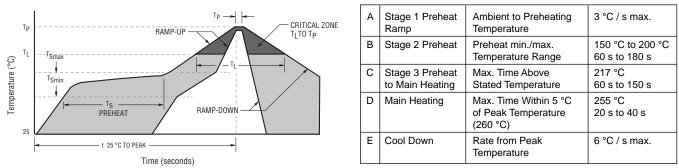
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### — 100 % Sn Plated Layer

#### Solder Re ow Recommendations



#### CAUTION:

- Rapid heating and cooling in excess of stated maximum rates will easily damage this product.
- Locating heating can also damage product.
- Do not thermally shock product in excess of 100 °C.
- Product can be repaired using a 30 W or less solder gun/iron. Tip temperature maximum is 280 °C for less than 3 seconds.
- · Do not touch the component directly with the soldering gun/iron.
- · Excess soldering volumes can damage the body of the product.

#### Specifications are subject to change without notice.

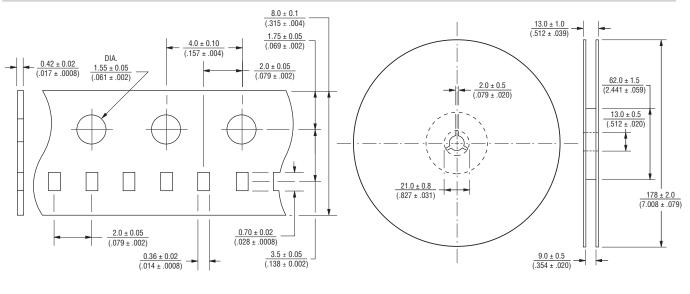
Users should verify actual device performance in their specific applications.

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### **Packaging Dimensions**



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

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