

# NEW PRODUCT BRIEF

## Model BVRA Series AEC-Q200 Compliant, Automotive Grade Multilayered Varistors

### INTRODUCTION

Bourns is pleased to announce the release of the Model BVRA Series Multilayered Varistors. These AEC-Q200 compliant, automotive grade low voltage multilayered varistors feature excellent transient energy absorption due to their enhanced energy volume distribution and power dissipation design. The capabilities of Bourns® BVRA Series Varistors are ideal for use in automotive circuits requiring effective surge protection.

The Model BVRA Series is available with working voltages from 5.5 V to 85 VDC and is offered in 0402, 0603, 0805 and 1206 package sizes, making them a superior protection solution for a wide range of integrated circuits and other components at the circuit board level.

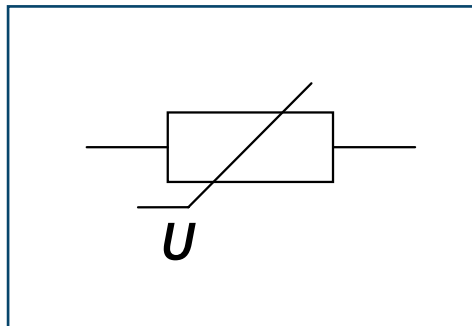
### FEATURES

- AEC-Q200 compliant
- Meets IEC 61000-4-5 standard
- Compact SMD package
- Quick response time (<0.5 ns)
- High transient current capability
- Lead free
- RoHS compliant\*

### APPLICATIONS

- Automotive electronic systems
- White goods
- Circuit board level transient surge protection

### CIRCUIT DIAGRAM



### MORE INFORMATION

- [High-energy MOVs](#)
- [High-current GDTs](#)
- [Power TVS Diodes](#)

### BENEFITS

- **Effective Protection:** Meets IEC 61000-4-5 standards, offering robust defense against transient voltage events.
- **Rapid Response:** Swift <0.5 ns reaction time, ensuring prompt energy diversion during transient events.
- **Reliable Performance:** High reliability and stable leakage current for consistent circuit protection.
- **Optimized Design:** Compact SMD form factor and insulator overcoat help enhance efficiency and streamline integration and compliance.

### HOW TO ORDER

**BVRA xxxx - nn PF R**

Series Designator \_\_\_\_\_  
 BVR = BVR Series

Automotive Grade \_\_\_\_\_

Model Size \_\_\_\_\_  
 0402 = 0402 Package  
 0603 = 0603 Package  
 0805 = 0805 Package  
 1206 = 1206 Package

Max. RMS Voltage \_\_\_\_\_  
 04 = 4 V                      20 = 20 V  
 06 = 6 V                      25 = 25 V  
 08 = 8 V                      30 = 30 V  
 11 = 11 V                     35 = 35 V  
 14 = 14 V                     40 = 40 V  
 14 = 14 V                     50 = 50 V  
 17 = 17 V                     60 = 60 V

RoHS Compliance \_\_\_\_\_  
 PF = Lead free

Packaging \_\_\_\_\_  
 R = Tape and reel packaging  
 (10,000 pcs. per 7-inch reel)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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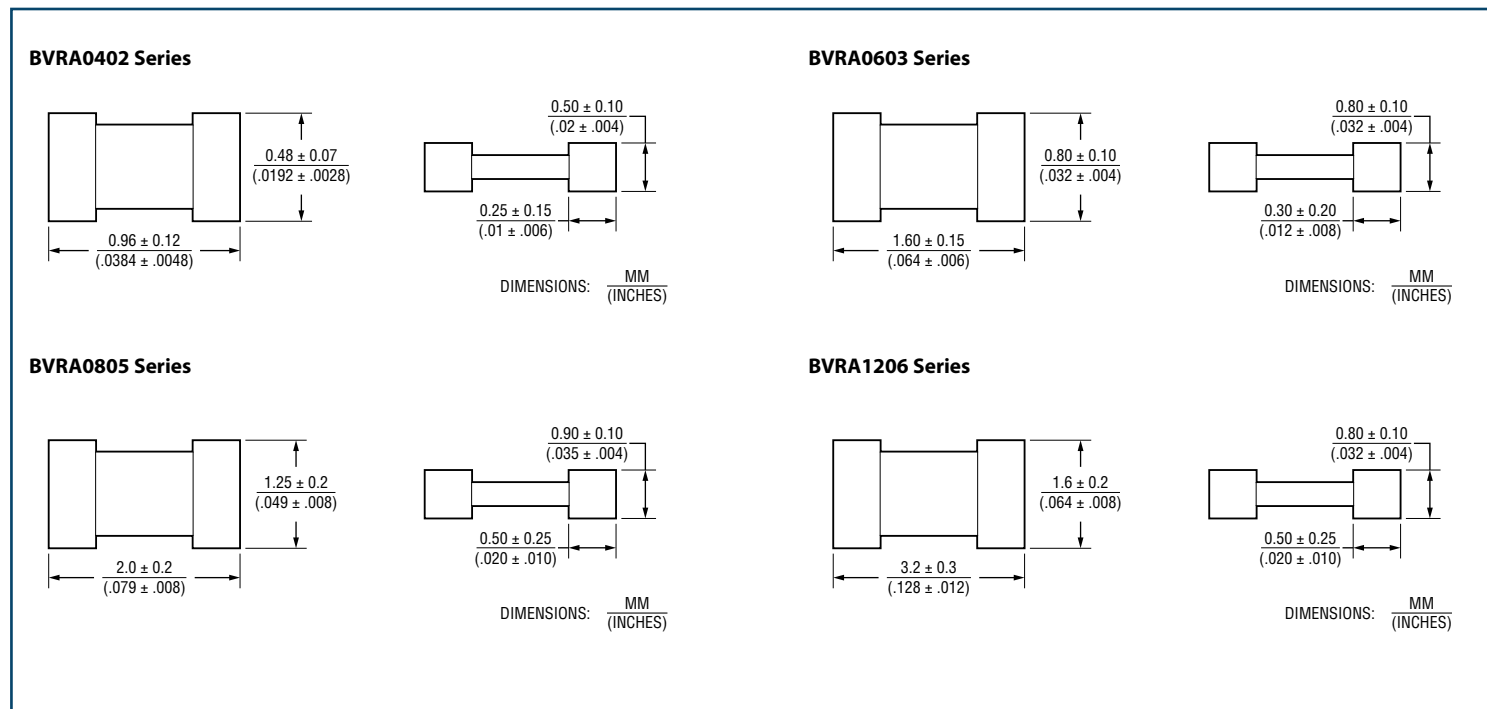
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### ELECTRICAL CHARACTERISTICS

Series	Size	$V_{rms}$ (V)	$V_{dc}$ (V)	$I_{max}$ (A)	RoHS Compliant*	AEC-Q200 Compliant/ Automotive Grade
		< 10 $\mu$ A		@ 8/20 $\mu$ s		
<b>BVRA0402 Series</b>	0402	4 ~ 14	5.5 ~ 18	10 ~ 20	Yes	Yes
<b>BVRA0603 Series</b>	0603	4 ~ 30	5.5 ~ 38	20 ~ 30	Yes	Yes
<b>BVRA0805 Series</b>	0805	4 ~ 35	5.5 ~ 45	30 ~ 120	Yes	Yes
<b>BVRA1206 Series</b>	1206	4 ~ 60	5.5 ~ 85	100 ~ 200	Yes	Yes

For full characteristics, see data sheet

### PRODUCT DIMENSIONS



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