

# 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 100 VDC and is offered in 0402, 0603, 0805, 1206, 1210 and 1812 package sizes, making them a superior protection solution for a wide range of integrated circuits and other components at the circuit board level.

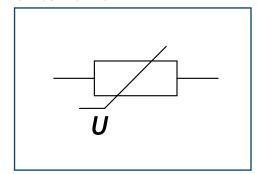
#### **FEATURES**

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

#### **APPLICATIONS**

- · Power supplies
- · Entertainment electronics
- Circuit board level protection against transient events
- · CAN, LIN, FLEXRAY based modules
- Module load dump protection
- · Motor/inductive load transient suppression

# **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.

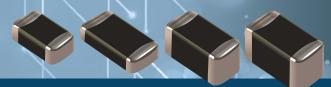
## **HOW TO ORDER**

	BVRA xxxx - nn PF	= 1
Series Designator _		
BVR = BVR Series		
Automotive Grade -		
Model Size		
0402 = 0402 Pac	kage	
0603 = 0603 Pac	kage	
0805 = 0805 Pac	kage	
1206 = 1206 Pac	kage	
1210 = 1210 Pac	kage	
1812 = 1812 Pac	kage	
Max. RMS Voltage -		
04 = 4  V	21 = 21 V	
06 = 6  V	25 = 25 V	
08 = 8  V	30 = 30 V	
09 = 9  V	34 = 34 V	
10 = 10  V	30 = 30 V	
11 = 11 V	35 = 35 V	
14 = 14  V	40 = 40 V	
17 = 17 V	46 = 46 V	
18 = 18  V	50 = 50 V	
20 = 20  V	60 = 60 V	
	75 = 75 V	
RoHS Compliance -		
PF = Lead free		
Packaging ———		
R = Tape and ree	l packaging	

(10,000 pcs. per 7-inch reel)

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

# NEW PRODUCT BRIEF



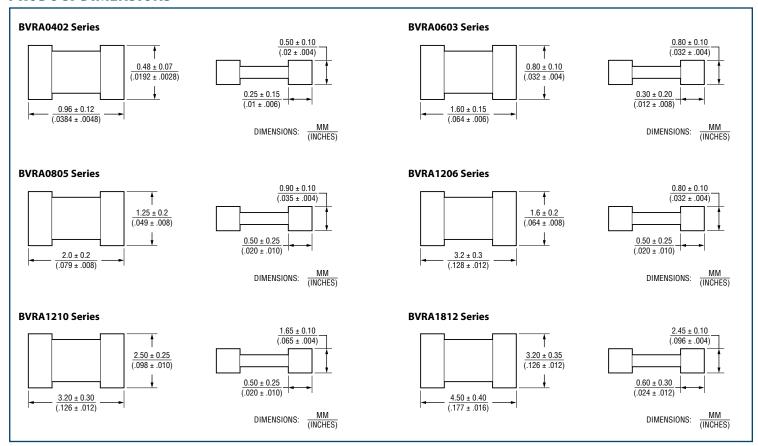
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# **ELECTRICAL CHARACTERISTICS**

Series	Sizze	V <sub>rms</sub> (V)	V <sub>dc</sub> (V)	I <sub>max</sub> (A)	RoHS	AEC-Q200 Compliant/
Jenes		<10 µА		@ 8/20 μs	Compliant*	Automotive Grade
BVRA0402 Series	0402	4~14	5.5 ~ 18	10 ~ 20	Yes	Yes
BVRA0603 Series	0603	4 ~30	5.5 ~ 38	20 ~ 30	Yes	Yes
BVRA0805 Series	0805	4 ~35	5.5 ~ 45	30 ~ 120	Yes	Yes
BVRA1206 Series	1206	4 ~ 60	5.5 ~ 85	100 ~ 200	Yes	Yes
BVRA1210 Series	1210	9 ~ 75	11 ~ 100	200 ~ 500	Yes	Yes
BVRA1812 Series	1812	10 ~ 75	14 ~ 100	400 ~ 800	Yes	Yes

For full characteristics, see data sheet

## **PRODUCT DIMENSIONS**



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