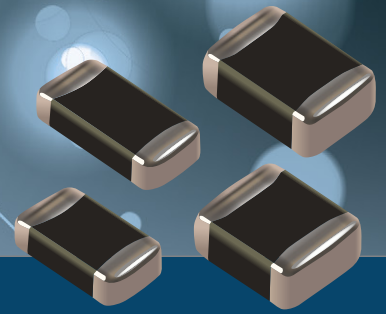


NEW PRODUCT BRIEF



Bourns® Model BVR Series Multilayered Varistors

INTRODUCTION

The new Bourns® Model BVR Series low voltage multilayered varistors are designed to protect integrated circuits at the circuit board level and other sensitive electronic devices against high voltage surges in low voltage designs. They offer excellent transient energy absorption due to their enhanced energy volume distribution and power dissipation.

The Model BVR Series is available with 5.5 V to 18 V DC working voltages and in 0805, 1206, 1210 and 1812 package options.

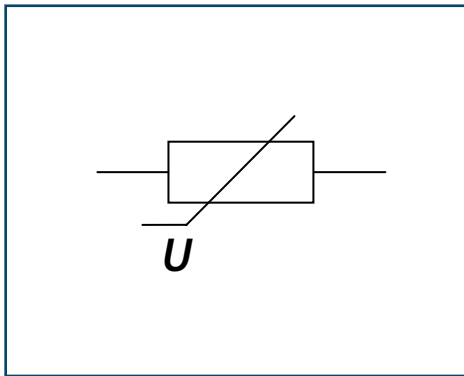
FEATURES

- Meets the IEC 61000-4-5 standard
- Compact SMD package
- Quick response time
- High transient current capability
- RoHS compliant*

BENEFITS

- **Effective Protection:** Meets the IEC 61000-4-5 standard; offers robust defense against transient voltage events.
- **Rapid Response Time:** Swift reaction time, ensuring prompt energy diversion during transients.
- **Reliable Performance:** High reliability and stable leakage current delivers consistent circuit protection.
- **Optimized Design:** Compact SMD form factor and insulator overcoat for enhanced integration, efficiency, and compliance.

CIRCUIT DIAGRAM



HOW TO ORDER MODEL BVR0805

BVR 0805 - nn PF R

Series Designator _____
 BVR = BVR Series

Model Size _____
 0805 = 0805 Package

Max. RMS Voltage _____
 04 = 4 V
 06 = 6 V
 08 = 8 V
 11 = 11 V
 14 = 14 V

RoHS Compliance _____
 PF = Lead free

Packaging _____
 R = Tape and reel packaging
 (4000 pcs. per 7-inch reel)

HOW TO ORDER MODEL BVR1206

BVR 1206 - nn PF R

Series Designator _____
 BVR = BVR Series

Model Size _____
 1206 = 1206 Package

Max. RMS Voltage _____
 04 = 4 V
 11 = 11 V
 14 = 14 V

RoHS Compliance _____
 PF = Lead free

Packaging _____
 R = Tape and reel packaging
 (4000 pcs. per 7-inch reel)

APPLICATIONS

- Power supplies
- Consumer electronics
- White goods
- Any low voltage application that needs circuit board level protection

MORE INFORMATION

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

HOW TO ORDER MODEL BVR1210

BVR 1210 - nn R

Series Designator _____
 VR = BVR Series

Model Size _____
 1210 = 1210 Package

Max. RMS Voltage _____
 04 = 4 V
 14 = 14 V

Packaging _____
 R = Tape and reel packaging
 (2000 pcs. per 7-inch reel)

HOW TO ORDER MODEL BVR1812

BVR 1812 - nn R

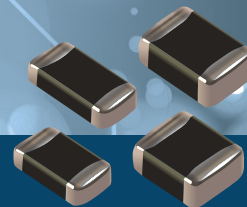
Series Designator _____
 BVR = BVR Series

Model Size _____
 1812 = 1812 Package

Max. RMS Voltage _____
 04 = 4 V
 14 = 14 V

Packaging _____
 R = Tape and reel packaging
 (1000 pcs. per 7-inch reel)

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



ELECTRICAL CHARACTERISTICS

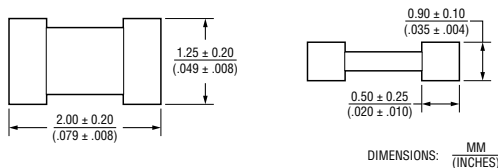
Series	Size	V_{rms} (V)	VDC (V)	I_{max} (A)	RoHS Compliant*	Lead Free
		< 10 μ A		@ 8/20 μ s		
BVR0805 Series	0805	4 ~ 14	5.5 ~ 18	80 ~ 120	Yes	Yes
BVR1206 Series	1206	4 ~ 14	5.5 ~ 16	200		
BVR1210 Series	1210	4 ~ 14	5.5 ~ 18	400 ~ 500		Lead exemption
BVR1812 Series	1812	4 ~ 10	5.5 ~ 14	800		

For full characteristics, see data sheets

PRODUCT DIMENSIONS

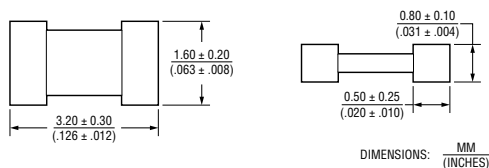
BVR0805 SMD Series - Low Voltage Varistors

Product Dimensions



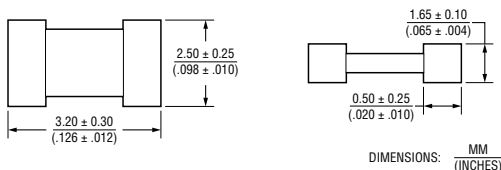
BVR1206 SMD Series - Low Voltage Varistors

Product Dimensions



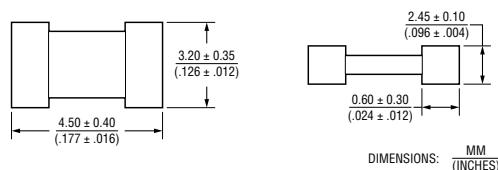
BVR1210 SMD Series - Low Voltage Varistors

Product Dimensions



BVR1812 SMD Series - Low Voltage Varistors

Product Dimensions



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