

Features

- Meets IEC 61000-4-5 standard
- Compact size for EIA 1210
- Quick response time (< 0.5 ns)</p>
- High transient current capability
- RoHS compliant*

Applications

- Power supplies
- Entertainment electronics

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BVR1210 SMD Series - Low Voltage Varistors

Description

The Model BVR1210 Low Voltage Multilayered Varistor Series is designed to protect sensitive electronic devices against high voltage surges in the low voltage regions. These varistors offer excellent transient energy absorption due to improved energy volume distribution and power dissipation. The Model BVR1210 Series is available with 5.5 to 18 VDC working voltages.

Model BVR Series Varistors are typically utilized to protect integrated circuits and other components at the circuit board level.

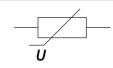
Electrical Characteristics @ 25 °C (unless otherwise noted)

Model	V _{rms} (V)	VDC (V)	V _n Min. (V)	V _n Max. (V)	V _c (V)	I _{max} (A)	С _Р Тур. (pF)
	<10 µA		1 mA DC		1 A @ 8/20 µs	@ 8/20 µs	@ 1 KHz
BVR1210-04	4	5.5	9	14	28	400	2100
BVR1210-14	14	18	22	29	45	500	1100

Environmental Characteristics

Operating Temperature	40 °C to +125 °C
Storage Temperature	
Standard	
Moisture Sensitivity Level	
ESD Classification (HBM)	N/A

Device Symbol



How to Order

BVR	12	10 -	nn	R
Series Designator BVR = BVR Series				
Model Size				
Max. RMS Voltage				
Packaging R = Tape and reel packagi	ng			

(2000 pcs. per 7-inch reel)

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

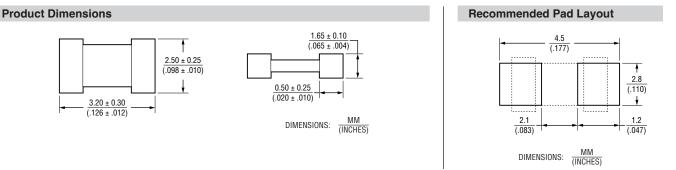
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

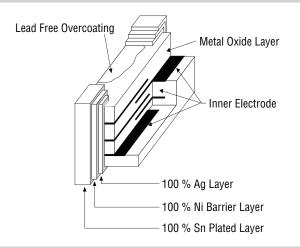
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BVR1210 SMD Series - Low Voltage Varistors

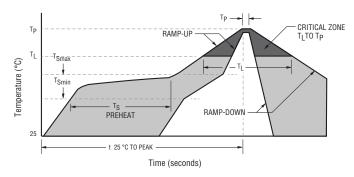
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Construction



Solder Reflow Recommendations



A	Stage 1 Preheat Ramp	Ambient to Preheating Temperature	3 °C/s max.	
В	Stage 2 Preheat	Preheat min./max. Temperature Range	150 °C to 200 °C 60 s to 180 s	
С	Stage 3 Preheat to Main Heating	Max. Time Above Stated Temperature	217 °C 60 s to 150 s	
D	Main Heating	Max Time Within 5 °C of Peak Temperature (260 °C)	255 °C 20 s to 40 s	
E	Cool Down	Rate from Peak Temperature	6 °C/s max.	

CAUTION:

• This product can be damaged by rapid heating, cooling or localized heating.

· Heat shocks should be avoided. Preheating and gradual cooling recommended.

• Solder gun tip temperature should be kept below 280 °C and should not touch the device directly. Contact should be less than 3 seconds. A solder gun under 30 watts is recommended.

· Excess solder volume can damage the body of the product.

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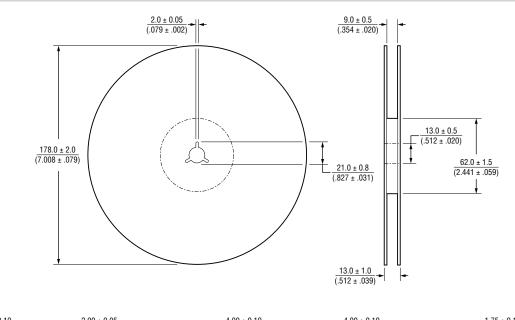
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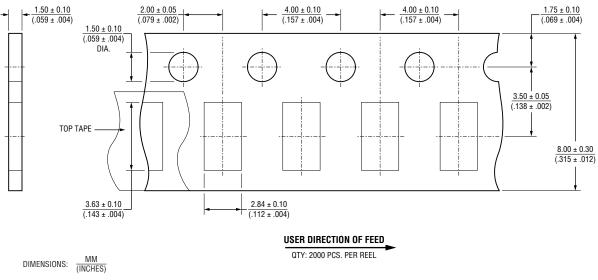
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BVR1210 SMD Series - Low Voltage Varistors

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Packaging Dimensions





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