

Voltage Control

Bourns® voltage control devices are used with high-speed series protectors to protect sensitive circuits from electrical disturbances caused by lightning-induced surges, inductive-coupled spikes, and AC power cross conditions. The unique structure and characteristics of the device are used to create an overvoltage protection device with precise and repeatable turn-on characteristics with low voltage overshoot and high surge current capabilities.

Specifications

	Surge Rating	Electrical Characteristics							
Part Number	lpp (A)	V _{DRM} (V)	V _S (V)	V _T (V)	I _{DRM} (μΑ)	IS (mA)	Iт (А)	I _H (mA)	C _O (pF)
FVC2300	4	190	260	3	5	400	1	150	6
FVC3100	4	275	350	3	5	400	1	150	6

IPP (peak pulse current) - maximum rated peak impulse current with 1.2/50 µs waveform

VDRM (peak off-state voltage) - maximum voltage that can be applied while maintaining off state measured at IDRM

Vs (switching voltage) - maximum voltage prior to switching to on-state measured at 100 V/µs

VT (on-state voltage) - maximum voltage measured at rated on-state current

IDRM (leakage current) - maximum peak off-state current measured at VDRM

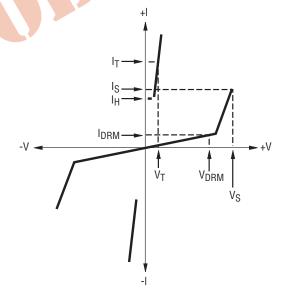
This series is obsolete and

not recommended for new designs.

Is (switching current) - maximum current required to switch to on state IT (on-state current) - maximum rated continuous on-state current IH (holding current) - minimum current required to maintain on state

(off-state capacitance) - typical off-state capacitance measured at 1 MHz with a 2 V bias

Typical Performance Characteristics



General Notes:

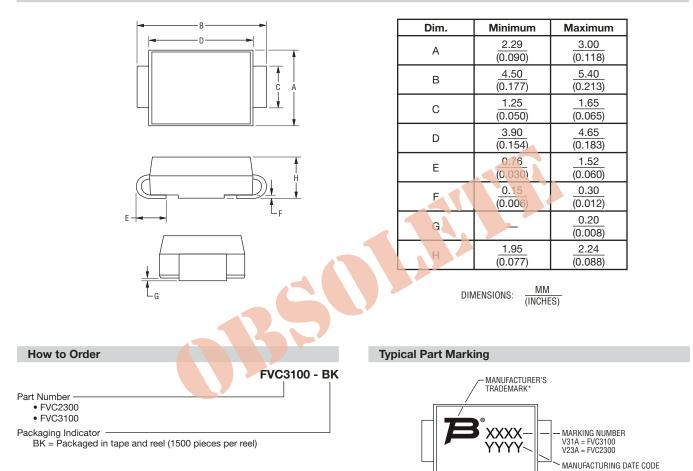
- All measurements are at an ambient temperature of 25 °C. I pp applies to -40 °C through +85 °C.
- Ipp is a repetitive surge rating and is designed to be maintained for the life of the product.
- · The devices are bidirectional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications

FVC Series Voltage Control Devices

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Product Dimensions

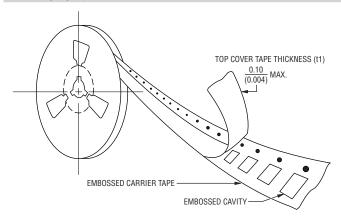


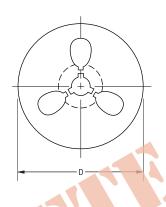
*TRANSITION FROM FULTEC TRADEMARK TO BOURNS TRADEMARK IN 2009.

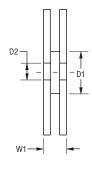
FVC Series Voltage Control Devices

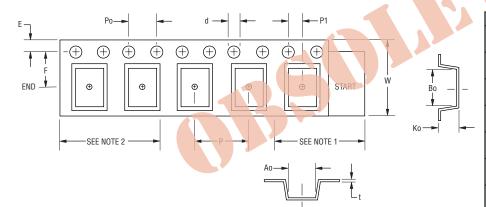
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Packaging Specifications









Symbol	Dim.
A0	$\frac{2.72 \pm 0.10}{(0.109 \pm 0.004)}$
B0	$\frac{5.25 \pm 0.10}{(0.210 \pm 0.004)}$
d	$\frac{1.55 \pm 0.05}{(0.061 \pm 0.002)}$
D	<u>330.0</u> (13.0)
D1	<u>50.0</u> (1.969) MIN.
D2	$\frac{13.50 \pm 1.0}{(0.531 \pm 0.039)}$
Е	$\frac{1.75 \pm 0.10}{(0.069 \pm 0.004)}$
F	$\frac{5.50 \pm 0.05}{(0.217 \pm 0.002)}$
K0	2.66 (0.105) MAX.
Р	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$
P0	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$
P1	$\frac{2.00 \pm 0.05}{(0.079 \pm 0.002)}$
t	<u>0.60</u> MAX.
W	$\frac{12.00 \pm 0.30}{(0.472 \pm 0.012)}$
W1	18.4 (0.724) MAX.



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DIMENSIONS: MM (INCHES)

01/09

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