

# VFS9VD31B223Q91#

“#” indicates a package specification code.

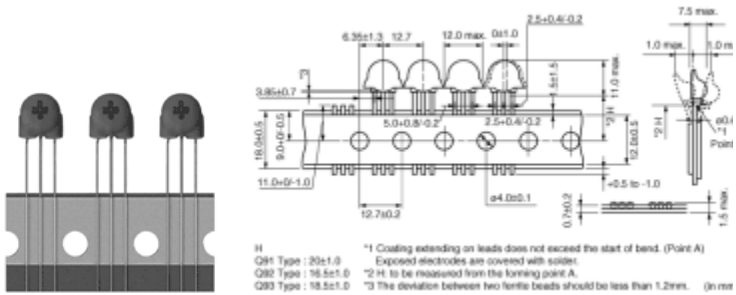
Discontinued RoHS REACH

< List of part numbers with package codes >

VFS9VD31B223Q91J

## Appearance & Shape

## Packaging Information



Packaging	Specifications	Minimum Order Quantity
J	320Reel	800

## Applications

Other Usage	For general
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### Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

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## Features

VFS9V series is designed for surge protection of the power supply. It protects electric circuits from surge such as static electricity and suppresses EMI noise. Its large capacitance value enables high insertion loss for EMI noise.

### Applications

For circuit protection and noise suppression in electronics equipment such as computers and DC motors, and in electronics systems installed in cars such as car audio equipment and engine controllers.

### Supplement

Diameter of lead is 0.6mm for taping type.  
Taping type is three terminal in-line arrangement.

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## Specifications

Shape	Lead
Length	12.0mm
Length Tolerance	max.
Width	7.5mm
Width Tolerance	max.
Thickness	10.5mm
Thickness Tolerance	max.
Rated Current	6A
Operating Temperature Range	-40°C to 100°C
Mass(typ.)	1.1g
Rated Voltage	12Vdc
Varistor Voltage	22Vdc
Varistor Voltage Tolerance	±20%
Capacitance	22000pF
Capacitance Tolerance	+50/-20%
ESD Test	25kV, 10times

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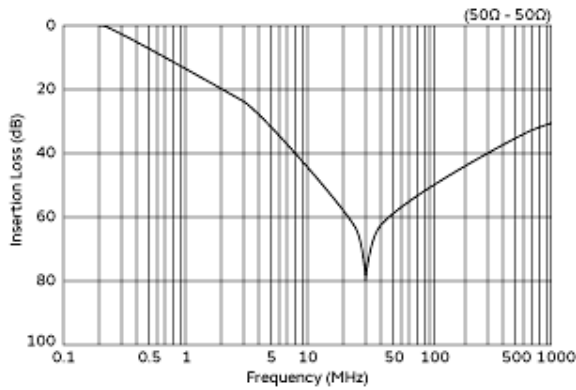
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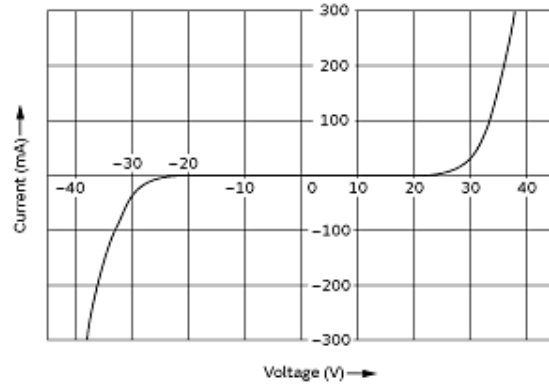
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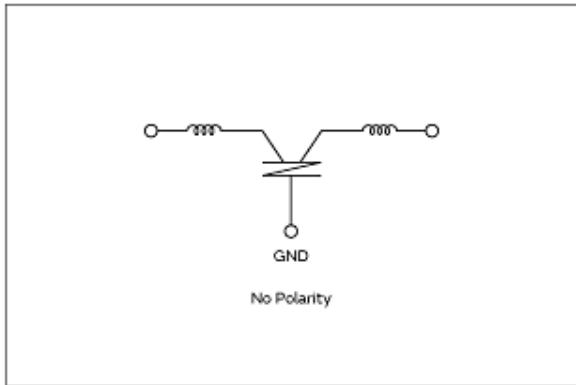
## Product Data



Insertion Loss Characteristics



Voltage-Current Characteristics



Equivalent Circuit

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