Note: 7

Note: This datasheet may be out of date.

Please download the latest datasheet of VFS9VD31B223Q93# from the official website of Murata Manufacturing
Co. Ltd.

http://www.murata.com/en/products/productdetail?partno=VFS9VD31B223Q93%23

### VFS9VD31B223Q93#

"#" indicates a package specification code.







< List of part numbers with package codes > VFS9VD31B223Q93J

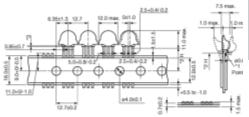


## Appearance & Shape



# Packaging Information





"1 Coaling extending on leads does not exceed the start of bend. (Point A)
Bype : 20±1.0
Bype : 185±5.0

"2 H to be measured from the forming point A.
Bype : 185±5.0

"3 The deciding between the first fixed a should be less than 1.2 year.

Packaging	Specifications	Minimum Order Quantity
J	320Reel	800



Other Usage

For general

1 of 4

#### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.





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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.

2 of 4

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### VFS9VD31B223Q93#

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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 Torelance	±20%
Capacitance	22000pF
Capacitance Tolerance	+50/-20%
ESD Test	25kV,10times

3 of 4

### Attention

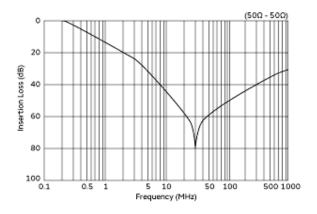
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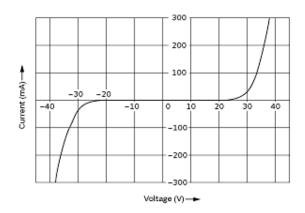


## VFS9VD31B223Q93#

"#" indicates a package specification code.

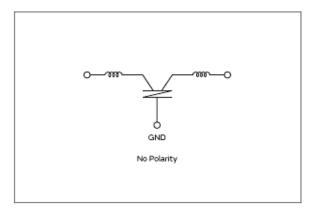






Insertion Loss Characteristics





**Equivalent Circuit** 

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