

# VC040209X200WP

(0402, 9Vdc, 0.05J, 20A, 175pF, Sn Term)

Multilayer Chip Varistor Datasheet

## BASIC SPECIFICATION

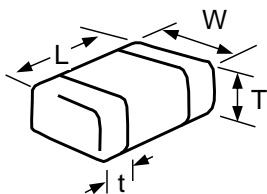
Case Size [EIA]	0402
Operating Temperature	-55 to +125°C
Grade	General
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	10000 pcs



## ELECTRICAL CHARACTERISTICS

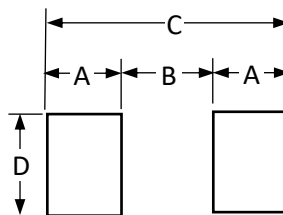
DC Working Voltage	9 Vdc
AC Working Voltage	6.4 Vac
Breakdown Voltage [1mA DC]	12.7±15% V
Clamping Voltage [8x20µs]	22V @ 1A
Max Leakage Current [Vdc, 25°C]	25 µA
Transient Energy [10x1000µs]	0.05 J
Peak Power [10x1000µs]	38 W
Peak Current Rating [8x20µs]	20 A
Typical Capacitance [1MHz, 0.5Vrms, 25°C]	175 pF
Capacitance Tolerance	+100/-50%

## DIMENSIONS



	mm	inches
L	1.00±0.10	0.040±0.004
W	0.50±0.10	0.020±0.004
T	0.6 max	0.024 max
t	0.25±0.15	0.010±0.006

## SOLDERING PAD



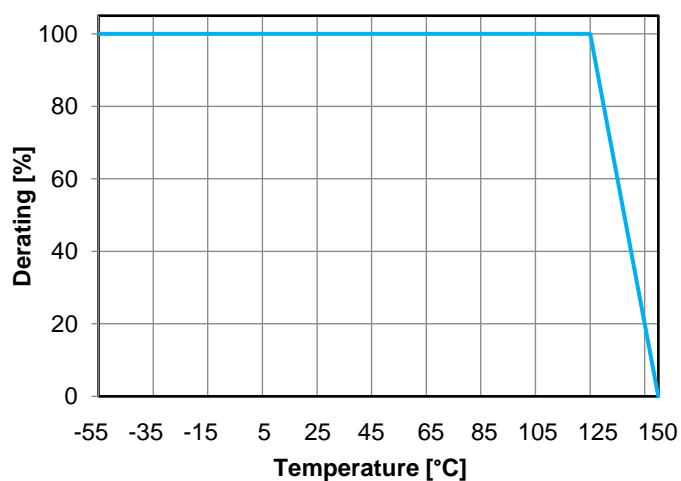
	mm	inches
A	0.61	0.024
B	0.51	0.02
C	1.7	0.067
D	0.51	0.02

## HOW TO ORDER

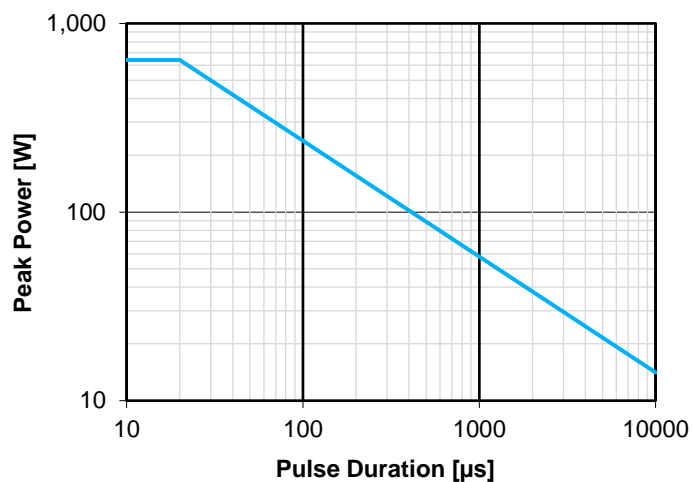
<b>VC</b>	<b>0402</b>	<b>09</b>	<b>X</b>	<b>200</b>	<b>W</b>	<b>P</b>
Varistor Chip	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		09 = 9Vdc	X = 0.05J	200 = 22V	W = 7" reel (10,000pcs)	P = Sn

## TYPICAL CHARACTERISTICS

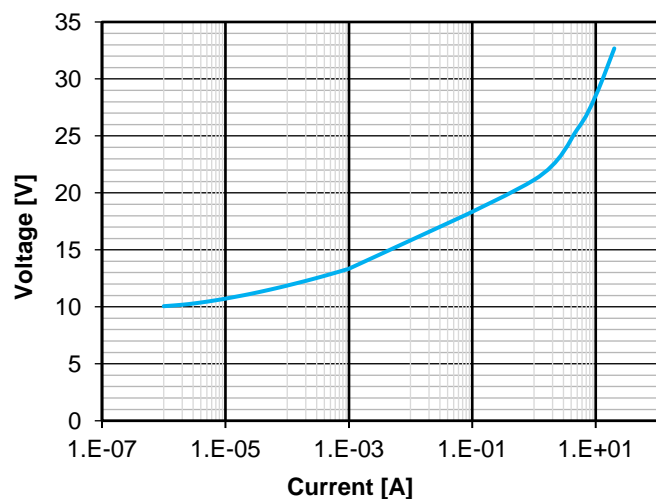
Temperature Derating (Energy, Current, Power)



Power Derating



Voltage / Current



S21

