

# VCAS120648D101RP

(1206, 48Vdc, 0.4J, 100A, 225pF, Sn Term)

Multilayer Chip Varistor Datasheet

## BASIC SPECIFICATION

Case Size [EIA]	1206
Operating Temperature	-55 to +125°C
Grade	Automotive
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	4000 pcs



AEC-Q200  
Qualified



RoHS  
Compliant



Click for  
Online Data

## ELECTRICAL CHARACTERISTICS

DC Working Voltage	48 Vdc
AC Working Voltage	34 Vac
Breakdown Voltage [1mA DC]	62.0±10% V
Clamping Voltage [8x20µs]	100V @ 1A
Max Leakage Current [Vdc, 25°C]	10 µA
Transient Energy [10x1000µs]	0.4 J
Load Dump Energy [x10]	-
Peak Power [10x1000µs]	300 W
Peak Current Rating [8x20µs]	100 A
Typical Capacitance [1kHz, 0.5Vrms, 25°C]	225 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	48 V
Power Dissipation	0.008 W

## DIMENSIONS



	mm	inches
L	3.20±0.20	0.126±0.008
W	1.60±0.20	0.063±0.008
T	1.02 max	0.040 max
t	0.94 max	0.037 max

## SOLDERING PAD



	mm	inches
A	1.02	0.04
B	2.03	0.08
C	4.06	0.16
D	1.65	0.065

## HOW TO ORDER

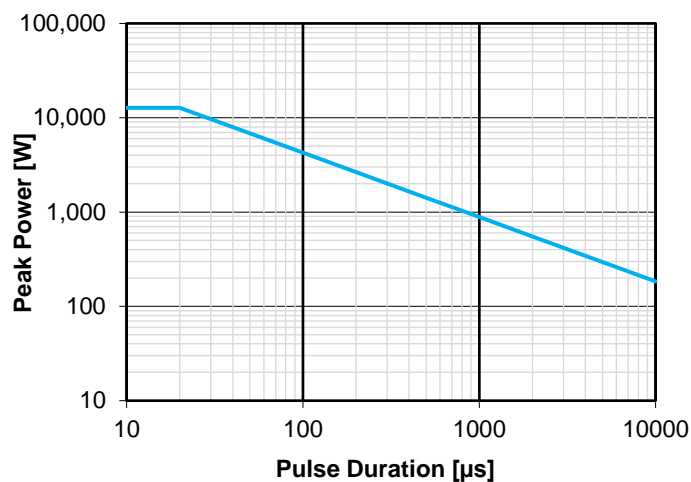
<b>VCAS</b>	<b>1206</b>	<b>48</b>	<b>D</b>	<b>101</b>	<b>R</b>	<b>P</b>
Varistor Chip Automotive	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		48 = 48 Vdc	D = 0.4J	101 = 100V	D = 7" reel (1,000pcs) R = 7" reel (4,000pcs) T = 13" reel (10,000pcs)	P = Sn

## TYPICAL CHARACTERISTICS

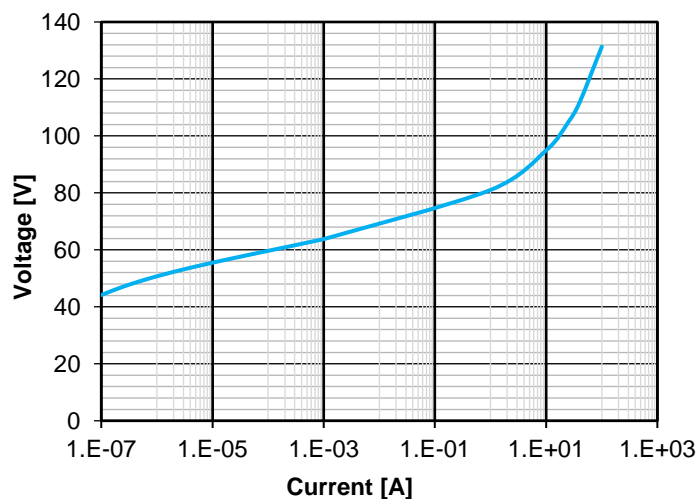
Temperature Derating (Energy, Current, Power)



Power Derating



Voltage / Current



S21

