

VTA3080538E770DP

(0805, 38Vdc, 0.5J, 120A, 275pF, Sn Term)

Multilayer Chip Varistor Datasheet

BASIC SPECIFICATION

Case Size [EIA]	0805
Operating Temperature	-55 to +150°C
Grade	Automotive & General
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	1000 pcs



AEC-Q200
Qualified



RoHS
Compliant

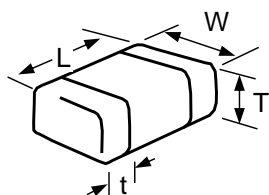


Click for
Online Data

ELECTRICAL CHARACTERISTICS

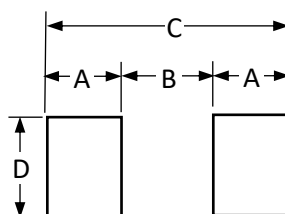
DC Working Voltage	38 Vdc
AC Working Voltage	30 Vac
Breakdown Voltage [1mA DC]	47±10% V
Clamping Voltage [8x20µs]	77V @ 1A
Max Leakage Current [Vdc, 25°C]	10 µA
Transient Energy [10x1000µs]	0.5 J
Load Dump Energy [x10]	1 J
Peak Power [10x1000µs]	0 W
Peak Current Rating [8x20µs]	120 A
Typical Capacitance	275 pF
Capacitance Tolerance [1kHz, 0.5Vrms, 25°C]	+100/-50%
Jump Start Voltage [5min]	48 V
Power Dissipation	0.01 W

DIMENSIONS



	mm	inches
L	2.01±0.20	0.079±0.008
W	1.25±0.20	0.049±0.008
T	1.02 max	0.040 max
t	0.71 max	0.028 max

SOLDERING PAD



	mm	inches
A	1.02	0.04
B	1.02	0.04
C	3.05	0.12
D	1.27	0.05

HOW TO ORDER

VTA3

Varistor
150°C

0805

Case Size

38

Working
Voltage

38 = 38 Vdc

E

Energy
Rating

E = 0.5J

770

Clamping
Voltage

770 = 77V

D

Packaging

D = 7" reel (1,000pcs)
R = 7" reel (4,000pcs)
T = 13" reel (10,000pcs)

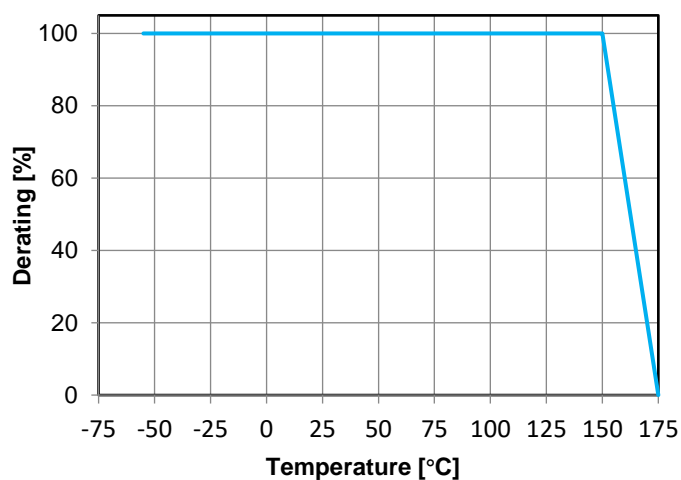
P

Termination

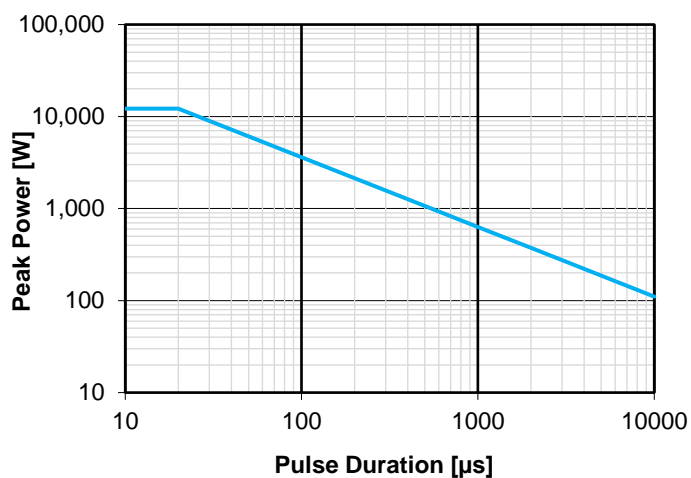
P = Sn

TYPICAL CHARACTERISTICS

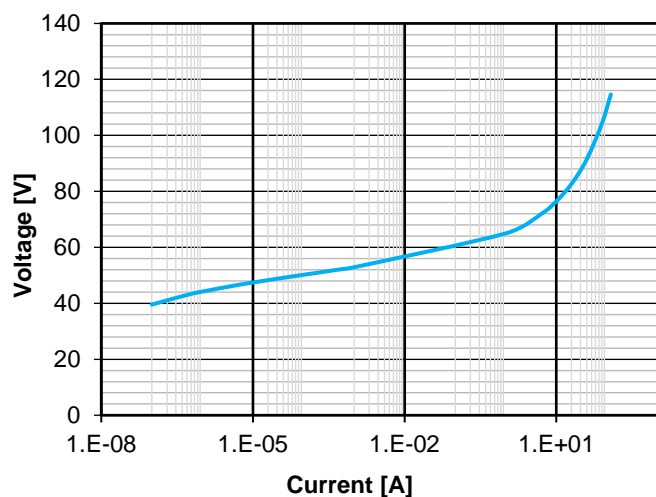
Temperature Derating (Energy, Current, Power)



Power Derating



Voltage / Current



S21

