VGAH121031R650TP

(1210, 31Vdc, 1.7J, 300A, 1200pF, Sn Term)

Multilayer Chip Varistor Datasheet

BASIC SPECIFICATION

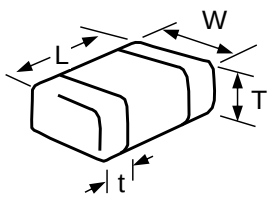
Case Size [EIA]	1210
Operating Temperature	-55 to +150°C
Grade	Automotive & General
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 13in (330mm)
Packaging Qty	10000 pcs

AEC-Q200 Qualified **RoHS Compliant** **Click for Online Data**

ELECTRICAL CHARACTERISTICS

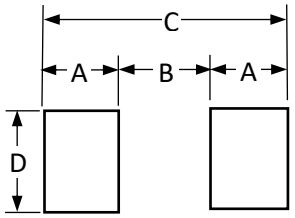
DC Working Voltage	31 Vdc
AC Working Voltage	25 Vac
Breakdown Votage [1mA DC]	39±10% V
Clamping Voltage [8x20µs]	65V @ 2.5A
Max Leakage Current [Vdc, 25°C]	15 µA
Transient Energy [10x1000µs]	1.7 J
Load Dump Energy [x10]	4.5 J
Peak Power [10x1000µs]	1275 W
Peak Current Rating [8x20µs]	300 A
Typical Capacitance [1kHz, 0.5Vrms, 25°C]	1200 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	30 V
Power Dissipation	0.05 W

DIMENSIONS



	mm	inches
L	3.20±0.20	0.126±0.008
W	2.49±0.20	0.098±0.008
T	1.7 max	0.067 max
t	1.14 max	0.045 max

SOLDERING PAD



	mm	inches
A	1.02	0.04
B	2.03	0.08
C	4.06	0.16
D	2.54	0.1

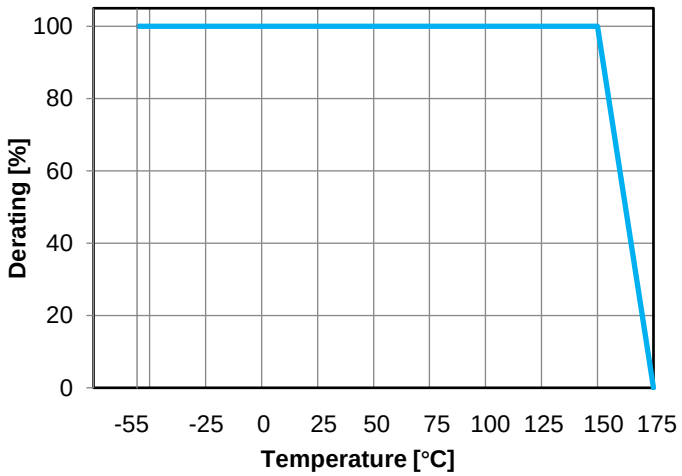
HOW TO ORDER

VGAH	1210	31	R	650	T	P
Varistor Glass Encapsulated 150°C	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		31 = 31 Vdc	R = 1.7J	650 = 65V	D = 7“ reel (1,000pcs) R = 7“ reel (2,000pcs) T = 13“ reel (10,000pcs)	P = Sn

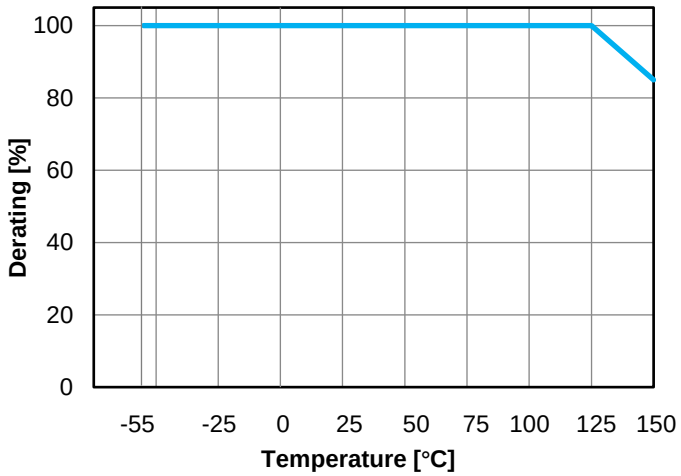
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TYPICAL CHARACTERISTICS

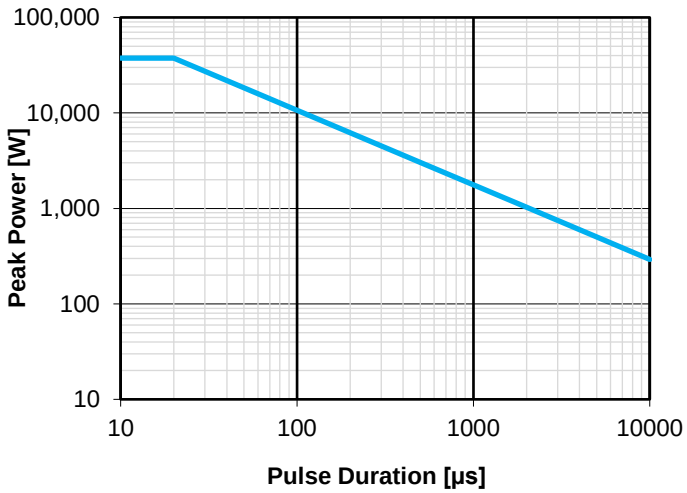
Temperature Derating (Energy, Current, Power)



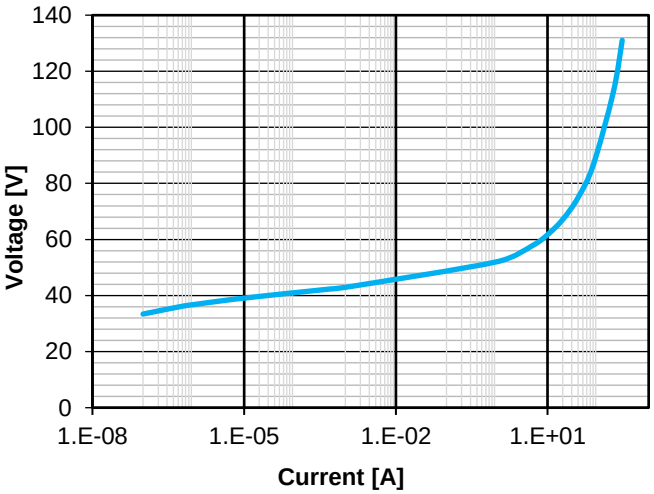
Temperature Derating (Working Voltage)



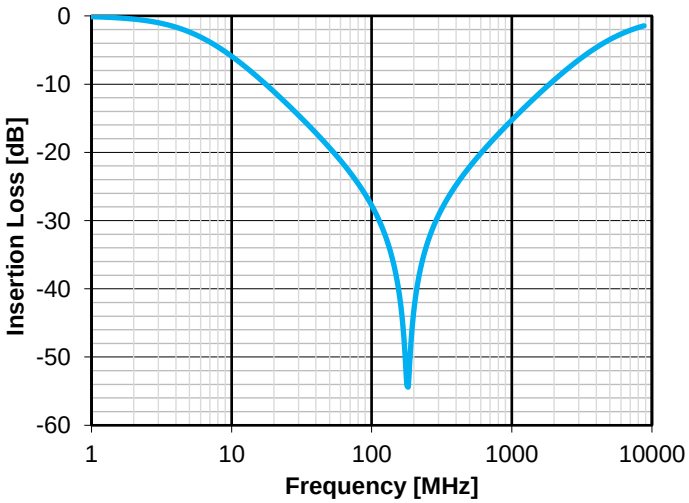
Power Derating



Voltage / Current



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NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived to be accurate and reliable, but are presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.