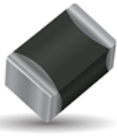


StaticGuard Automotive Multilayer Varistors

for Automotive applications



**AEC-Q200
Qualified**

AVX StaticGuard Automotive multilayer varistors provide bi-directional ESD protection and EMI/RFI attenuation in single compact component. Parts are lower capacitance versions of the TransGuard® and are designed for ESD protection where lower capacitance is needed e.g. datalines (LIN Bus, CAN, etc.), protection of CMOS, Bi-Polar, and SiGe based systems and more.

Electrical Characteristics

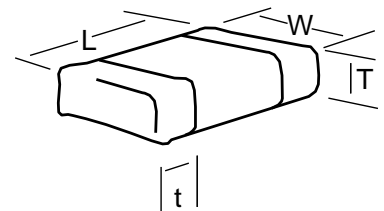
Operating Temperature -55 to +125°C

Case Size	V _W (DC)	V _W (AC)	V _B	V _C	I _{VC}	I _L	E _T	PP	I _P	Cap	Cap Tol	V _{JUMP}	P _{DISS}
EIA	Vdc	Vac	V	V	A	µA	J	W	A	pF	-	V (5min)	W
0402	18	14	25-40	50	1	10	0.02	15	15	40	+100/-50%	27.5	0.0004

V _W (DC)	DC Working Voltage [V]	PP	Peak Power Rating [W, 10x1000µS]
V _W (AC)	AC Working Voltage [V]	I _P	Peak Current Rating [A, 8x20µS]
V _B	Typical Breakdown Voltage [V @ 1mA _{DC}]	Cap	Typical capacitance [pF] @ 1MHz and 0.5VRMS
V _C	Clamping Voltage [V @ I _{VC}]	Cap tol	Capacitance tolerance from typical value
I _{VC}	Test Current for V _C [A, 8x20µS]	V _{JUMP}	Jump start voltage [V, 5min]
I _L	Maximum leakage current at the working voltage [µA]	P _{DISS}	Max Power Dissipation [W]
E _t	Transient Energy Rating [J, 10x1000µS]		

Dimensions

Size (EIA)	mm (inches)			
	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0402	1.00±0.10	0.50±0.10	0.6 max	0.25±0.15
	(0.040±0.004)	(0.020±0.004)	(0.024 max)	(0.010±0.006)



Termination

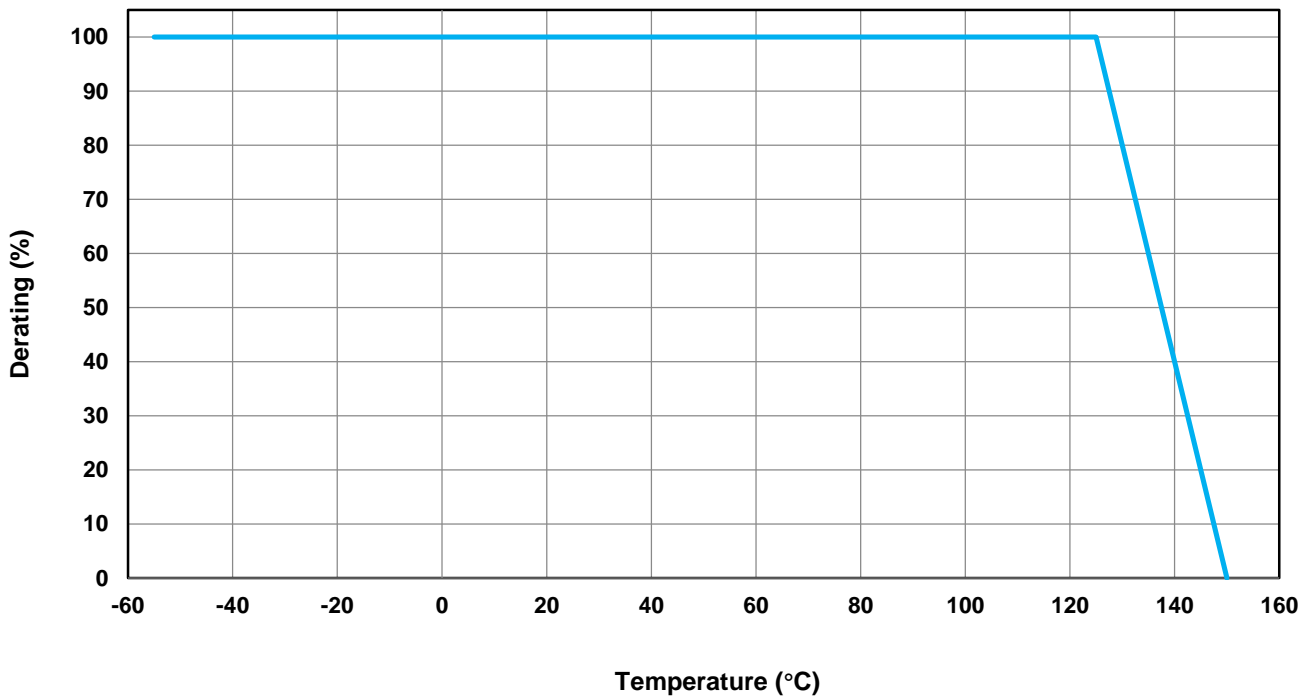
Ni barrier/100% Sn plated termination for lead free soldering.



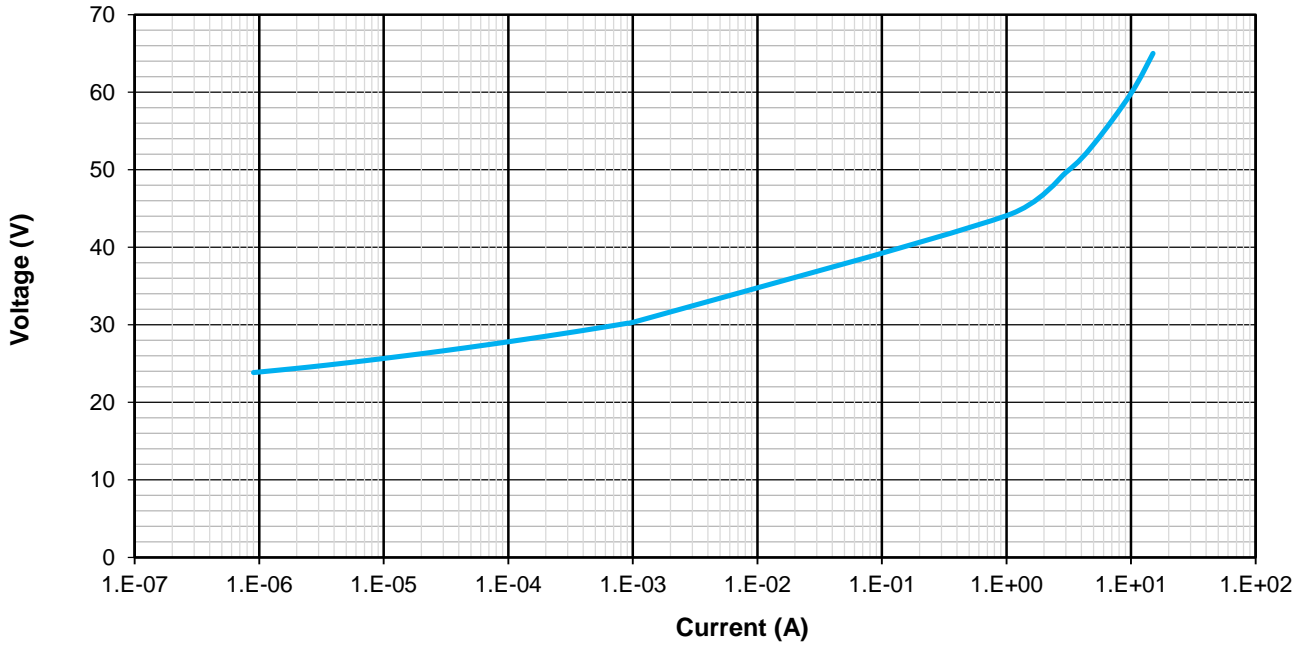
How to order (Packaging options)

VCAS	04	LC	18	V	500	W	P
Varistor Automotive Series	Case Size	Low Cap	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
	04 = 0402		18 = 18Vdc	V = 0.02J	500 = 50V	W = 7" reel (10,000pcs)	P = Ni/Sn

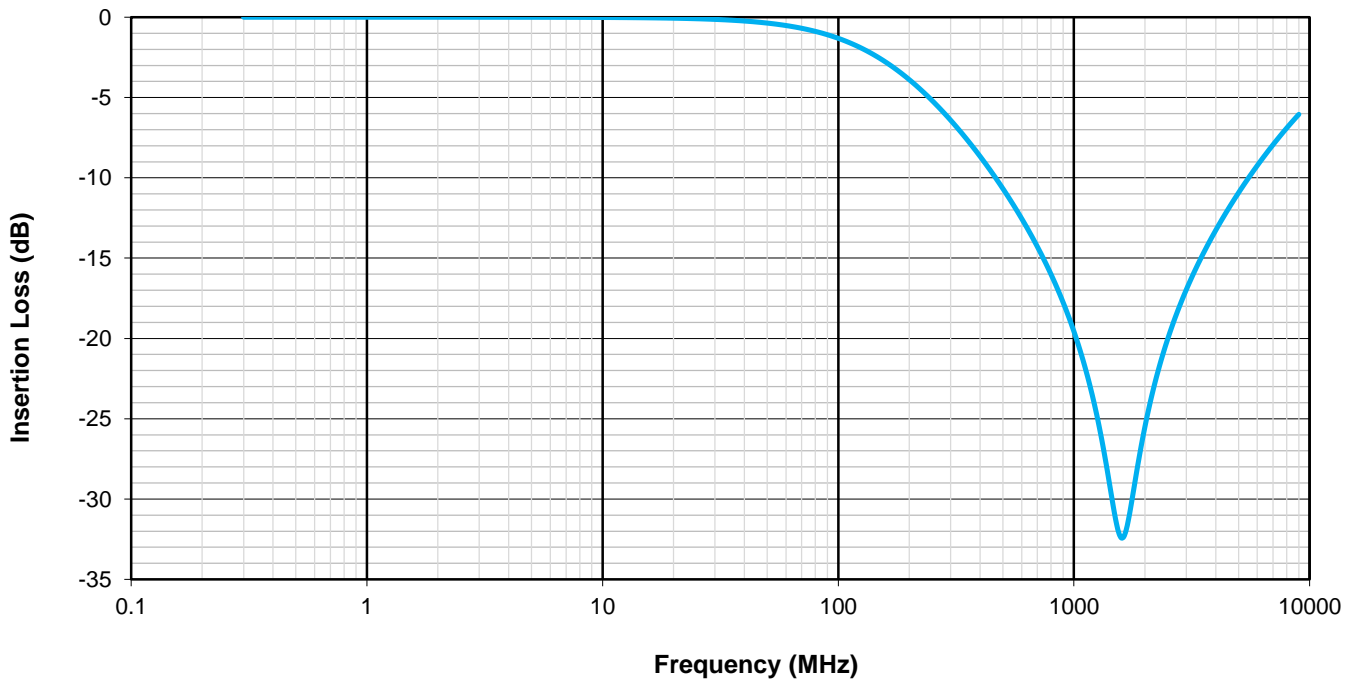
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



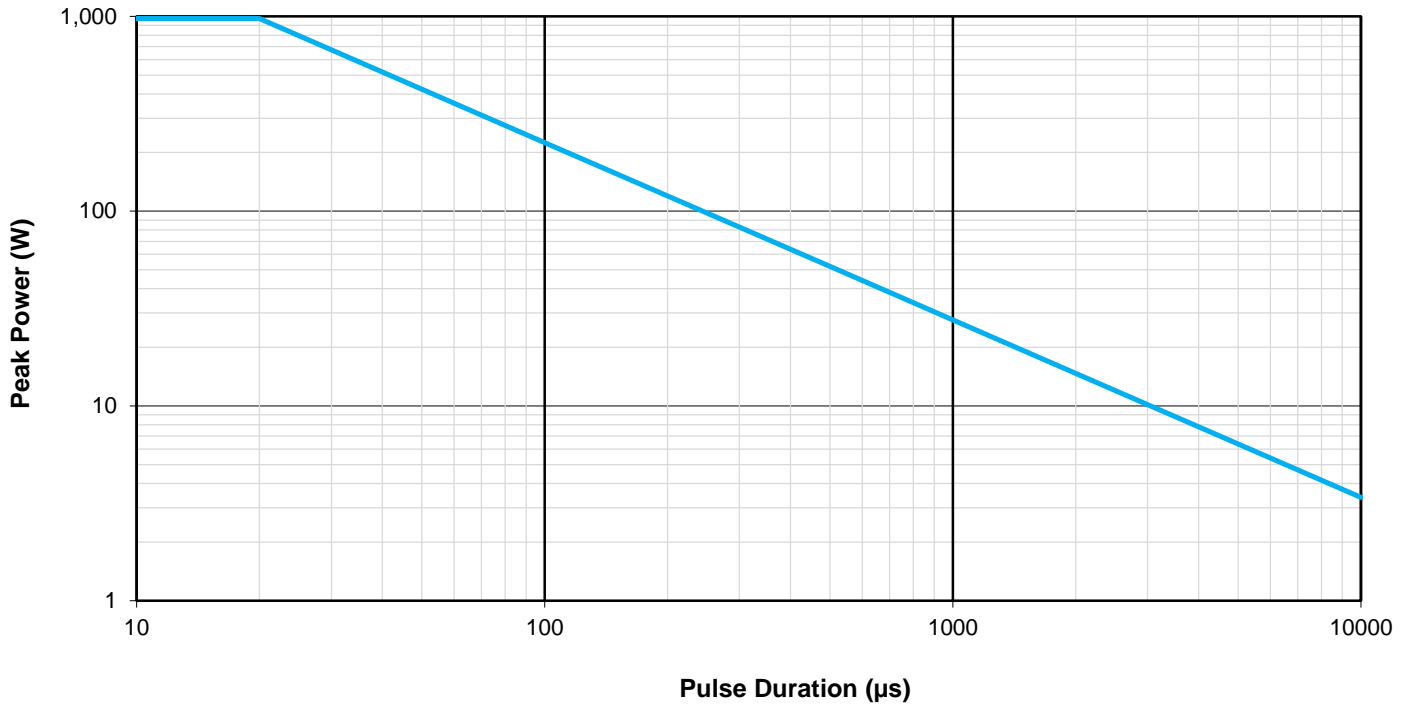
Voltage / Current Characteristics



S21 Characteristics



Power Derating



NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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.

单击下面可查看定价，库存，交付和生命周期等信息

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