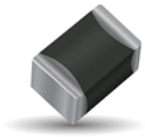
VLAS060316A350RP

(0603, 16Vdc, 0.1J, 50A, 400pF, Ni/Sn Term)

Low Clamp Automotive TransGuard® Multilayer Varistors

for Automotive, Industrial and General applications

To view data online visit:
SpiCAT



AEC-Q200 Qualified

AVX Low Clamping Automotive TransGuard® Multilayer Varistors exhibit lower breakdown and clamping to working voltage ratio and provide enhanced protection for components with higher sensitivity to overvoltage. Parts are suitable for automotive, industrial and general applications. They offer bi-directional ESD overvoltage protection as well as EMI/RFI attenuation in a single SMT package.

Electrical Characteristics

Operating Temperature	-55 to +150°C

Case Size	V_W (DC)	V_W (AC)	V_B	V_C	I_{VC}	I_L	E_T	E_{LD}	PP	I_P	Cap	Cap Tol	V_{JUMP}
EIA	Vdc	Vac	V	V	A	µA	J	J (10x)	W	A	pF	-	V (5min)
0603	16	11	19.5+12%	35	1	10	0.1	-	75	50	400	+100/-50%	20

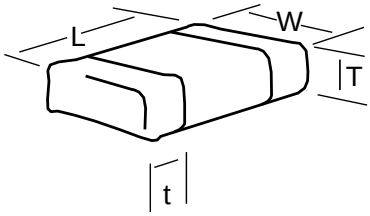
P_{DISS}
W
0.003

V_W(DC)	DC Working Voltage [V]	E_{LD}	Load Dump Energy (x10) [J]
V_W(AC)	AC Working Voltage [V]	PP	Peak Power Rating [W, 10x1000µS]
V_B	Typical Breakdown Votage [V @ 1mA$_{DC}$]	I_P	Peak Current Rating [A, 8x20µS]
V_C	Clamping Voltage [V @ I_{VC}]	Cap	Typical capacitance [pF] @1kHz and 0.5VRMS
I_{VC}	Test Current for V_C [A, 8x20µs]	Cap tol	Capacitance tolerance from typical value
I_L	Maximum leakage current at the working voltage [µA]	V_{JUMP}	Jump start voltage [V, 5min]
E_t	Transient Energy Rating [J, 10x1000µS]	P_{DISS}	Max Power Dissipation [W]

Dimensions

mm (inches)

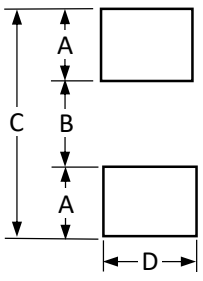
Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0603	1.60±0.15	0.80±0.15	0.9 max	0.35±0.15
	(0.063±0.006)	(0.031±0.006)	(0.035 max)	(0.014±0.006)



Soldering Pad

mm (inches)

A	B	C	D
0.89	0.76	2.54	0.76
(0.035)	(0.03)	(0.1)	(0.03)



How to order (Packaging options)

VLAS	0603	16	A	350	R	P
Varistor Low Clamp Automotive	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		16 = 16Vdc	A = 0.1J	350 = 35V	D = 7“ reel (1,000pcs) R = 7“ reel (4,000pcs) T = 13“ reel (10,000pcs)	P = Ni/Sn

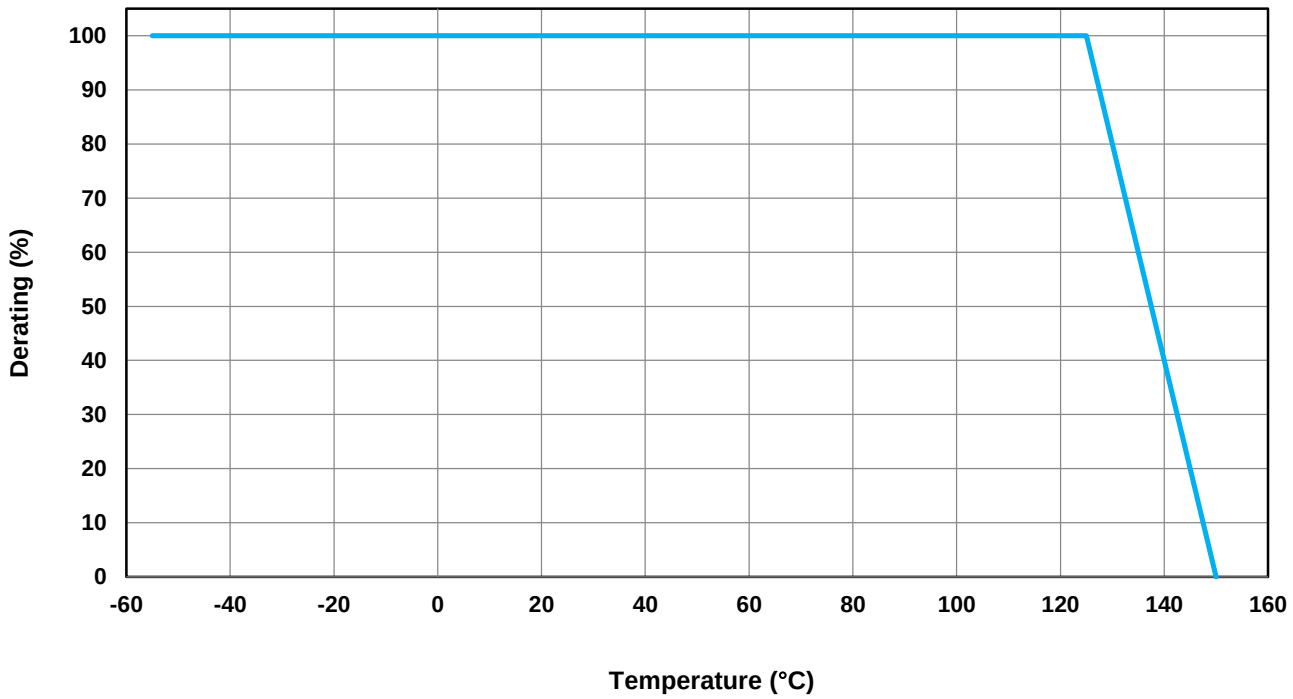
Termination

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

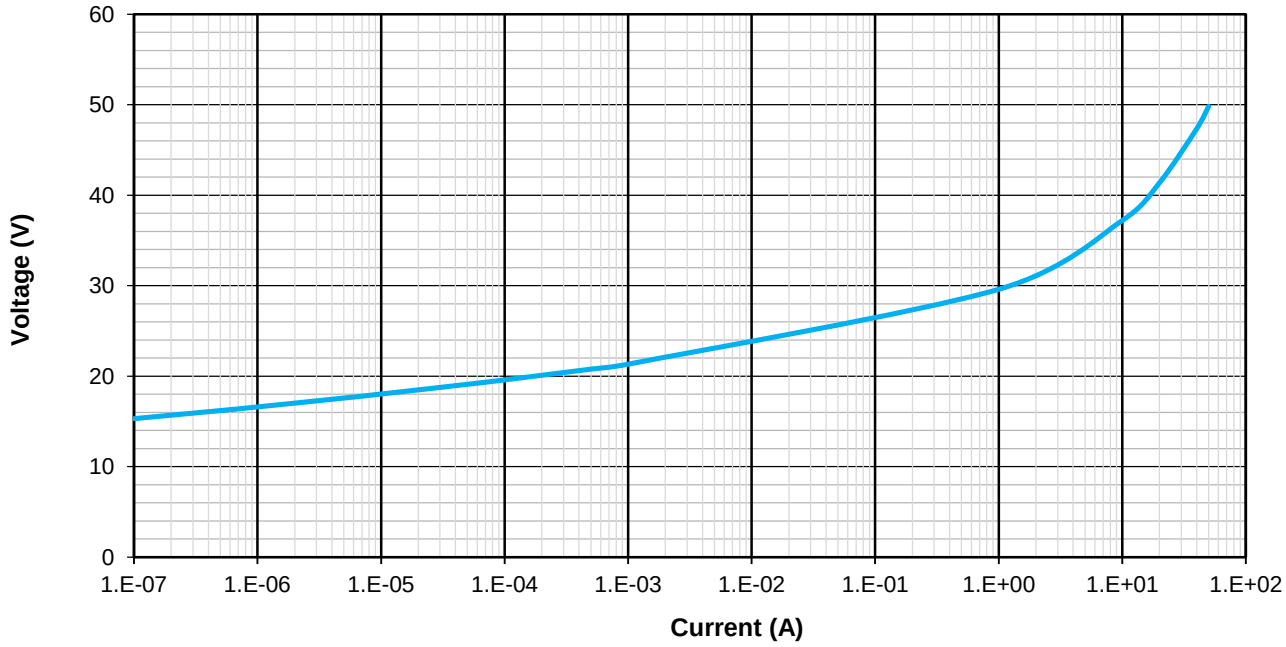
RoHS COMPLIANT

MSL 1
Pb Free 260°C

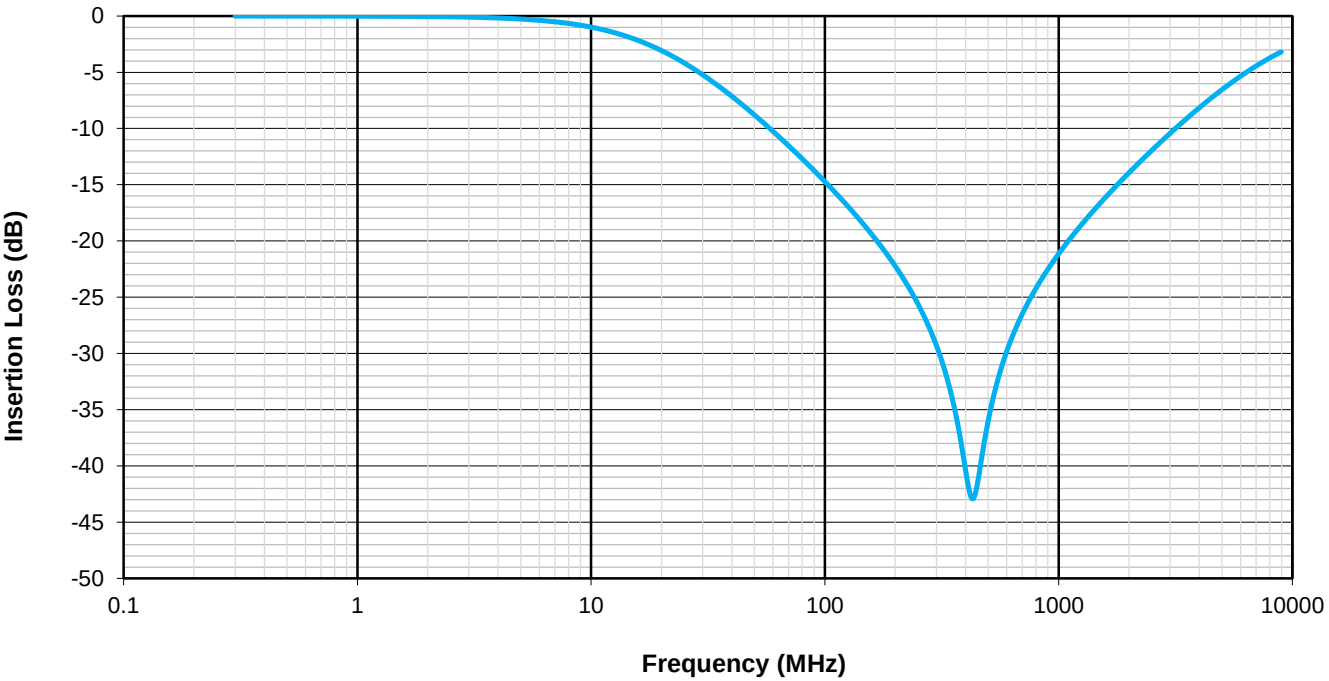
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



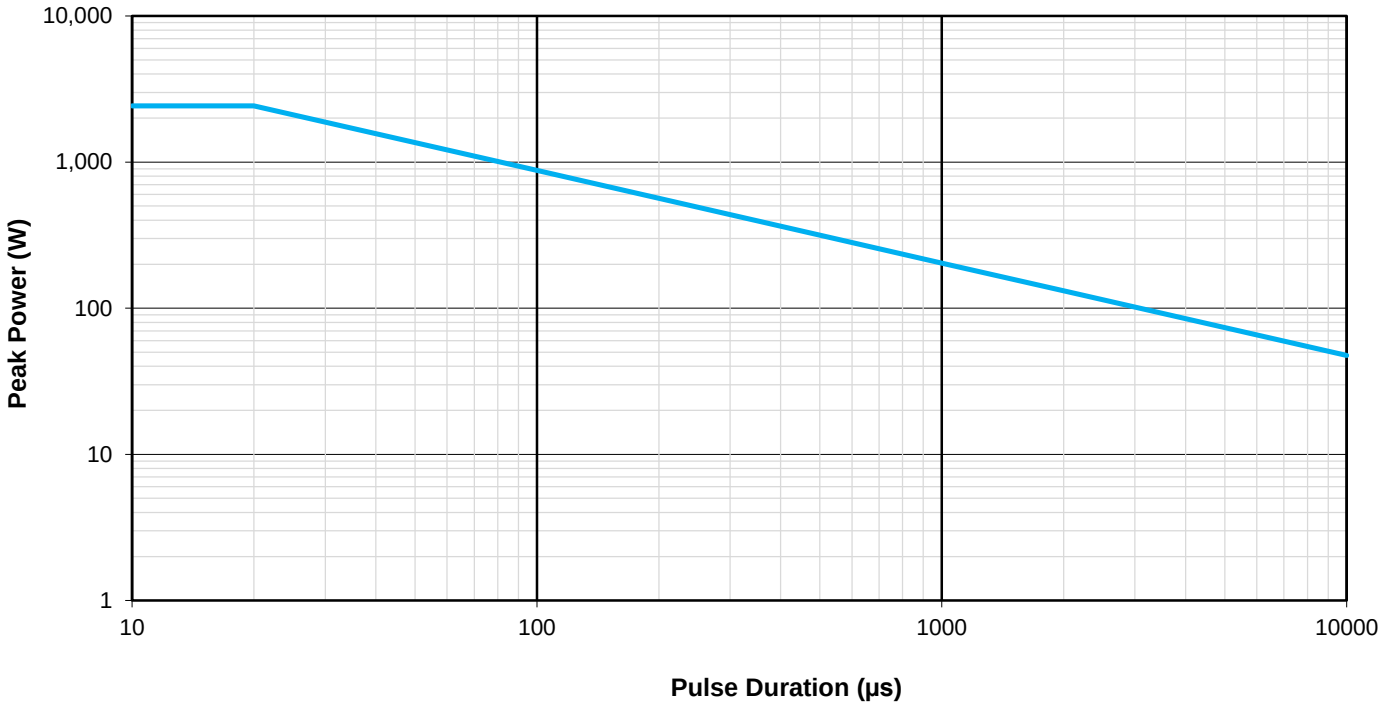
Voltage / Current Characteristics



S21 Characteristics



Power Derating



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