

Radial Leaded Automotive Multilayer Varistors

for Automotive, Industrial and General applications

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SpiCAT



**AEC-Q200
Qualified**

KYOCERA AVX Radial Varistors are designed for durability in harsh environments or applications where leaded component is preferred. These components, based on reliable multilayer varistor technology, provide bi-directional overvoltage protection and EMI filtering in radial leaded configuration and also offer excellent resistance against harsh environment, vibrations and shocks. This allows designers to combine the circuit protection and EMI/RFI attenuation function into a single highly reliable device.

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	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)
VR20	26	18	34.5±10%	60	5	10	1.2	3	900	300	1200	+100/-50%	27.5

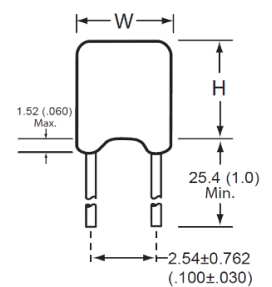
P _{DISS}
W
0.018

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 Voltage [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)

Style	Width (L)	Height (W)	Thickness (T)	Lead Spacing	Lead Diameter
VR20	5.59 Max	5.08 Max	3.175 Max	2.54	0.508
	(0.220) Max	(0.200) Max	(0.125) Max	(0.100)	(0.020)



Termination

Ni wires/100% Sn plated



**RoHS
COMPLIANT**

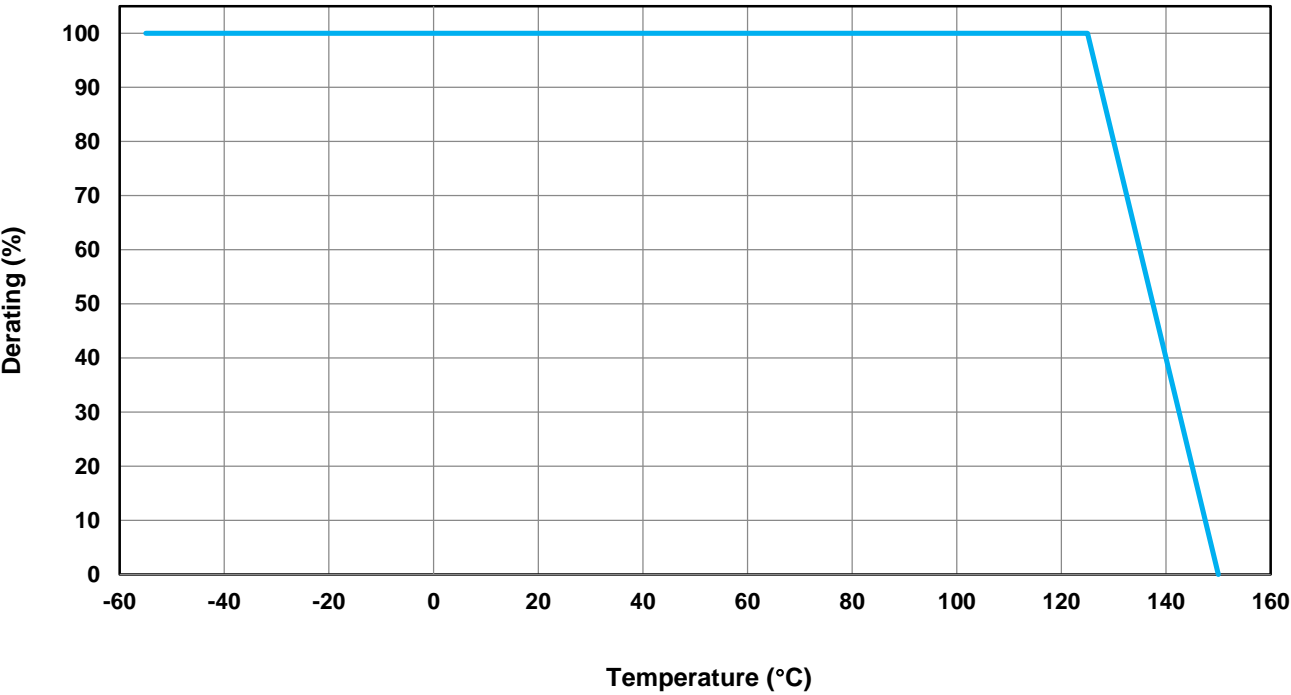
MSL 1

Pb Free 260°C

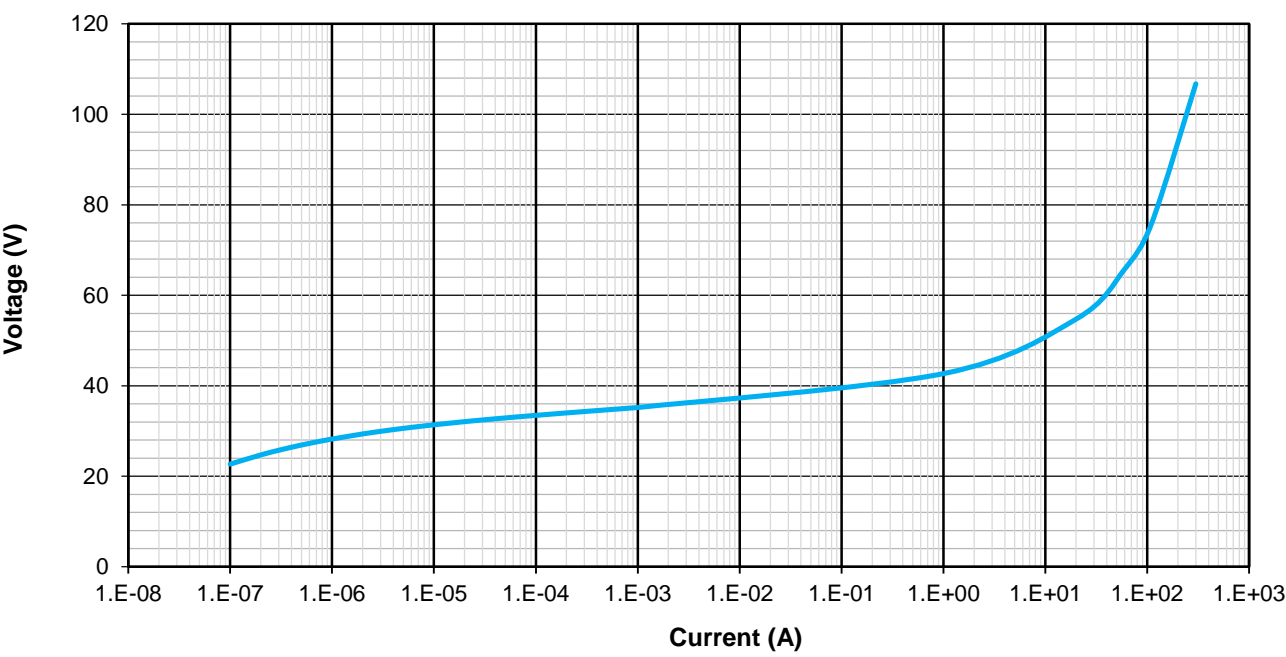
How to order (Packaging options)

VR20	AS	26	H	560	R	
Style	Automotive Series	Working Voltage	Energy Rating	Clamping Voltage	Leads	Packaging
		26 = 26Vdc	H = 1.2J	560 = 60V	R = RoHS Compliant	Blank = Bulk (1,000pcs) TR1 = T&R Standard 1 (3,000pcs) TR2 = T&R Standard 2 (3,000pcs)

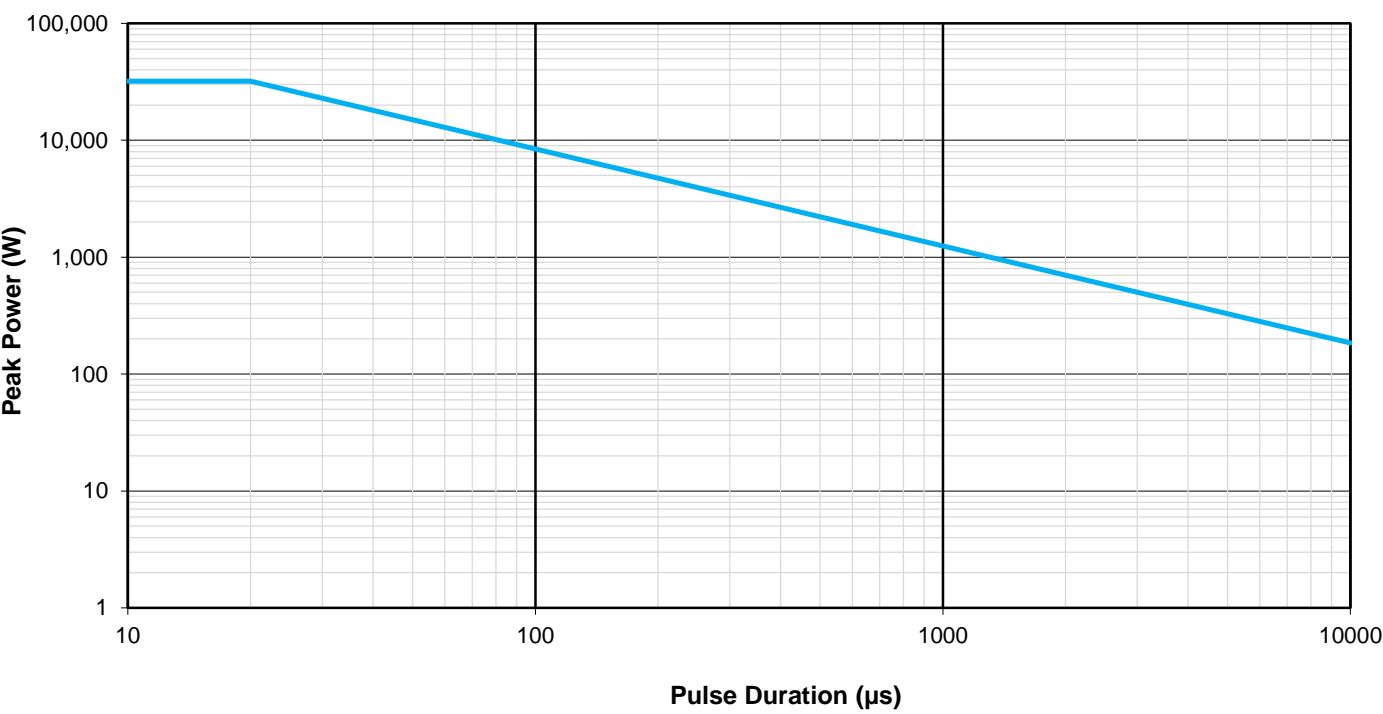
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



Voltage / Current 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.