VR15AT14A580R

(VR15, 14Vdc, 0.1J, 30A, 120pF, Ni/Sn Wire)

Radial Leaded +150°C Automotive Multilayer Varistors

for Automotive, Industrial and General applications

To view data online visit:
SpiCAT



AEC-Q200 Qualified

KYOCERA AVX Radial +150°C Varistors are designed for durability in harsh and high temperature 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)
VR15	14	10	34.5±10%	60	1	10	0.1	0.15	75	30	120	+100/-50%	27.5

P_{DISS}
W
0.002

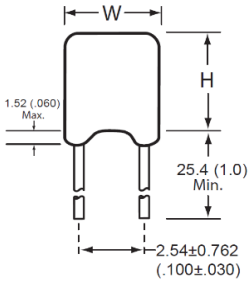
V_W(DC)	DC Working Voltage [V]
V_W(AC)	AC Working Voltage [V]
V_B	Typical Breakdown Votage [V @ 1mA$_{DC}$]
V_C	Clamping Voltage [V @ I_{VC}]
I_{VC}	Test Current for V_C [A, 8x20µs]
I_L	Maximum leakage current at the working voltage [µA]
E_t	Transient Energy Rating [J, 10x1000µS]

E_{LD}	Load Dump Energy (x10) [J]
PP	Peak Power Rating [W, 10x1000µS]
I_P	Peak Current Rating [A, 8x20µS]
Cap	Typical capacitance [pF] @1kHz and 0.5VRMS
Cap tol	Capacitance tolerance from typical value
V_{JUMP}	Jump start voltage [V, 5min]
P_{DISS}	Max Power Dissipation [W]

Dimensions

mm (inches)

Style	Width (L)	Height (W)	Thickness (T)	Lead Spacing	Lead Diameter
VR15	4.32 Max	3.81 Max	2.54 Max	2.54	0.508
	(0.170) Max	(0.150) Max	(0.100) Max	(0.100)	(0.020)



Termination

Ni wires/100% Sn plated

RoHS COMPLIANT

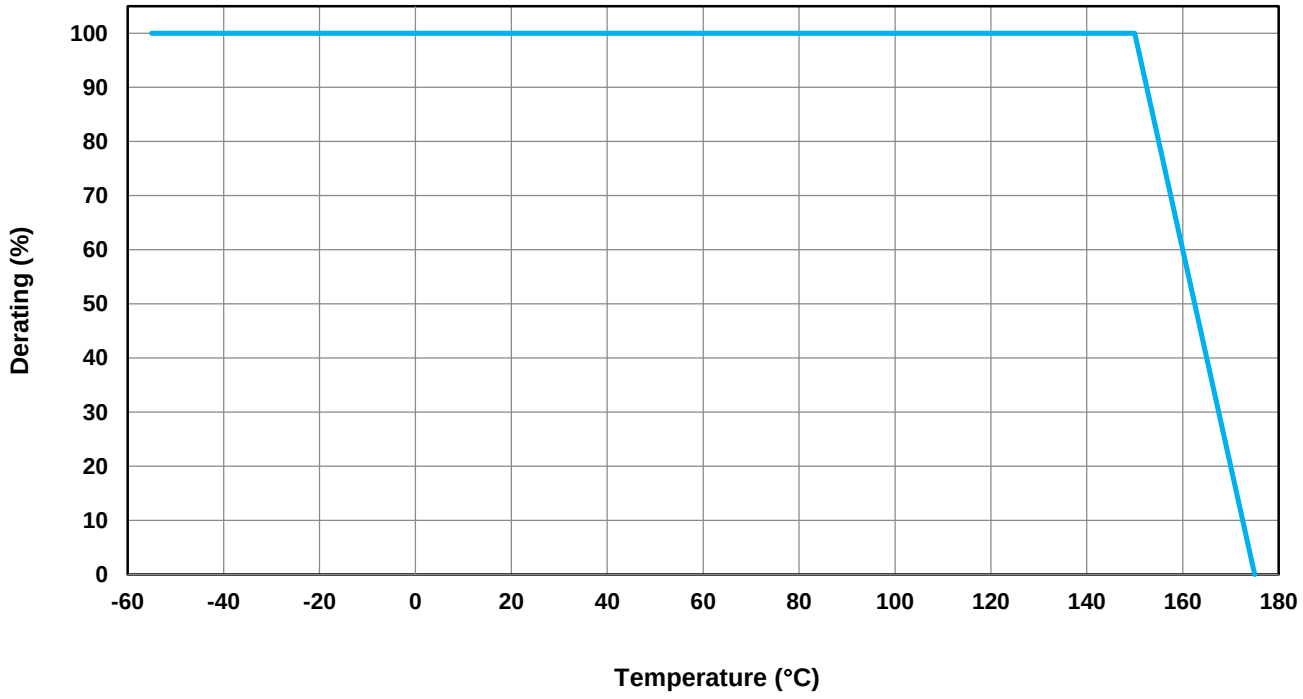
MSL 1

Pb Free 260°C

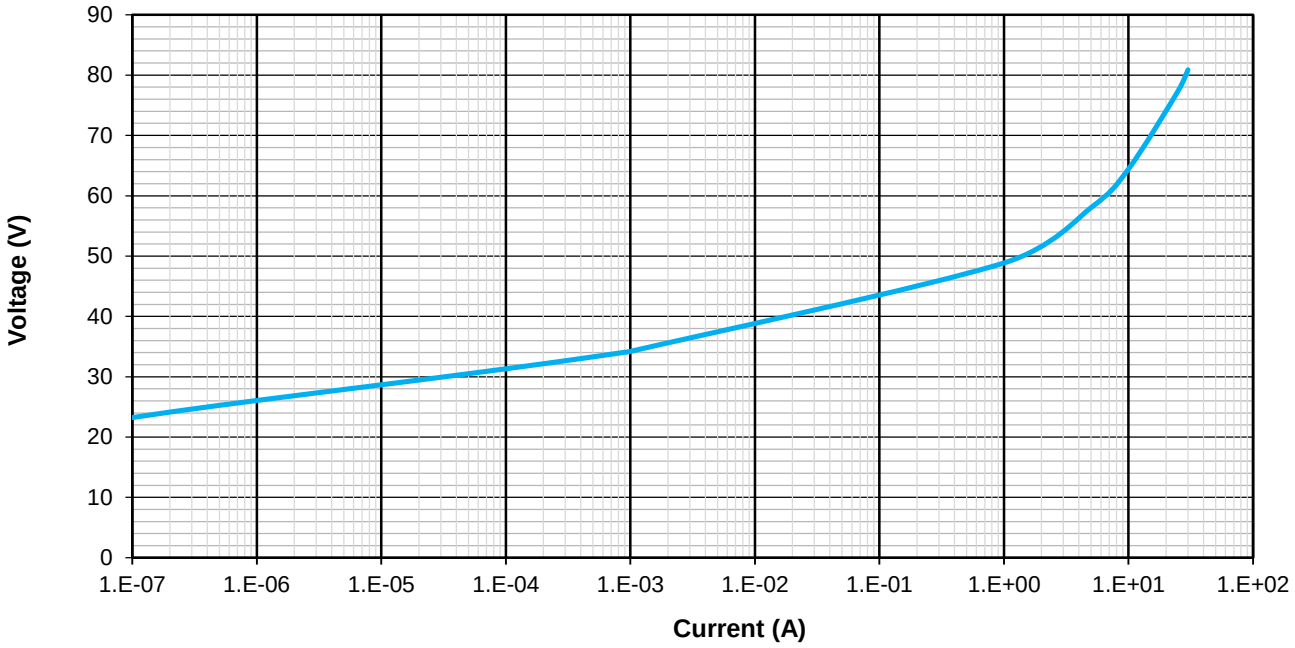
How to order (Packaging options)

VR15	AT	14	A	580	R	
Style	Automotive Series +150°C	Working Voltage	Energy Rating	Clamping Voltage	Leads	Packaging
		14 = 14Vdc	A = 0.1J	580 = 60V	R = RoHS Compliant	Blank = Bulk (1000pcs) TR1 = T&R Standard 1 (3500pcs) TR2 = T&R Standard 2 (3500pcs)

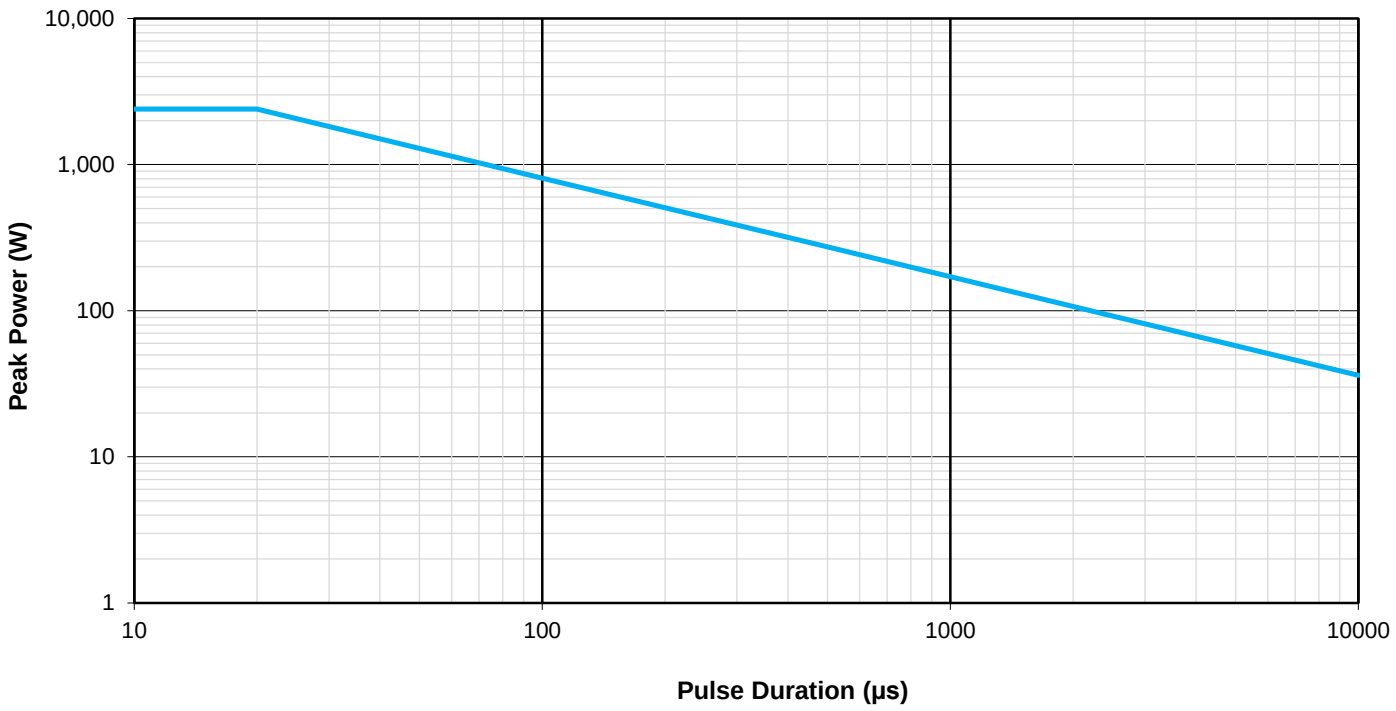
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



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.