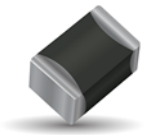
CAN0001RP

(0603, 18Vdc, 0.015J, 4A, 22pF, Ni/Sn Term)

Low Capacitance Communication Bus Varistors

for Automotive, Industrial and General applications



AEC-Q200 Qualified

Low Capacitance Communication Bus Varistors are designed for bi-directional transient voltage protection of communication bus, data lines and other capacitance sensitive applications with the advantage of EMI/RFI attenuation in the off state. Advantages include larger in-rush current capability compared to diodes, low loss/low signal distortion, very fast turn-on time, multiple strikes capabilities and EMI/RFI attenuation in single component.

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
0603	18	14	120	225	1	2	0.015	11	4	22	Max	27.5	0.003

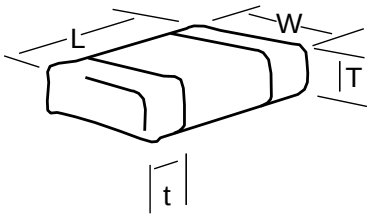
V_W(DC)	DC Working Voltage [V]
V_W(AC)	AC Working Voltage [V]
V_B	Typical Breakdown Votage [V @ 1mA$_{DC}$]
V_C	Clamping Voltage [V @ I_{VC}]
I_{VC}	Test Current for V_C [A, 8x20µs]
I_L	Maximum leakage current at the working voltage [µA]
E_t	Transient Energy Rating [J, 10x1000µS]

PP	Peak Power Rating [W, 10x1000µS]
I_P	Peak Current Rating [A, 8x20µS]
Cap	Typical capacitance [pF] @1MHz 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)

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)



Termination

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

RoHS COMPLIANT

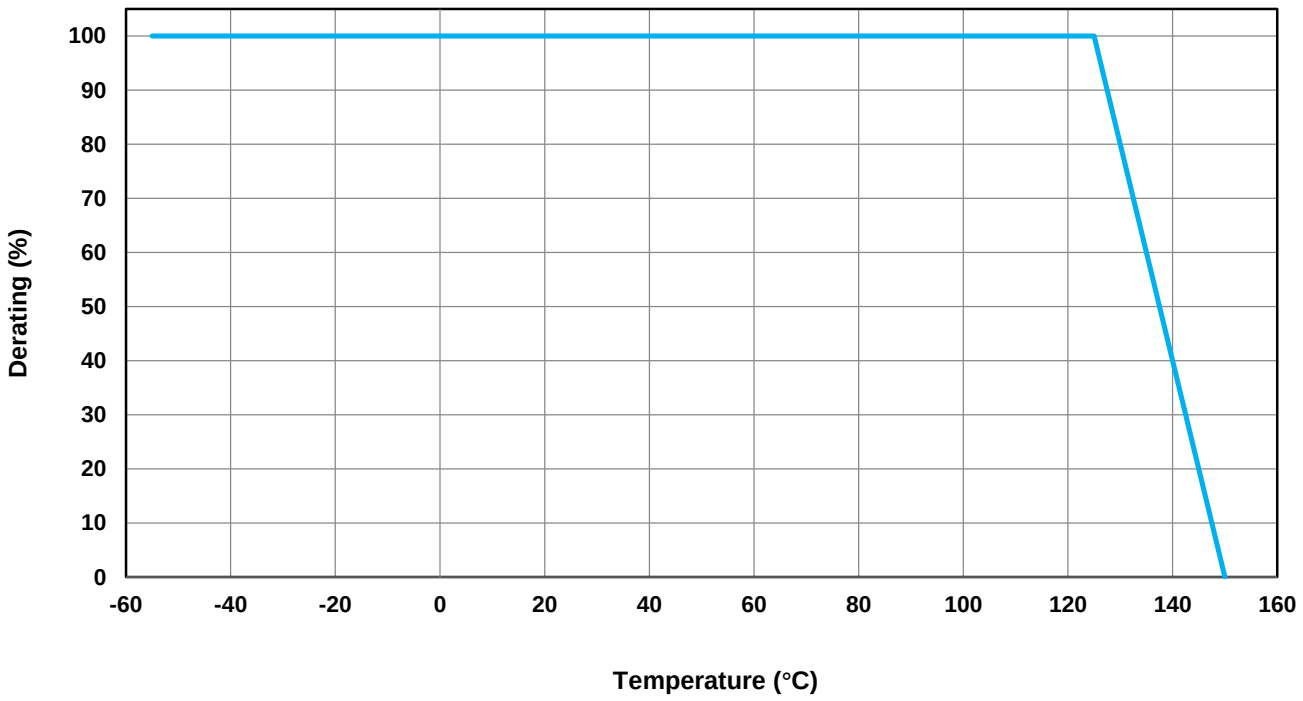
MSL 1

Pb Free 260°C

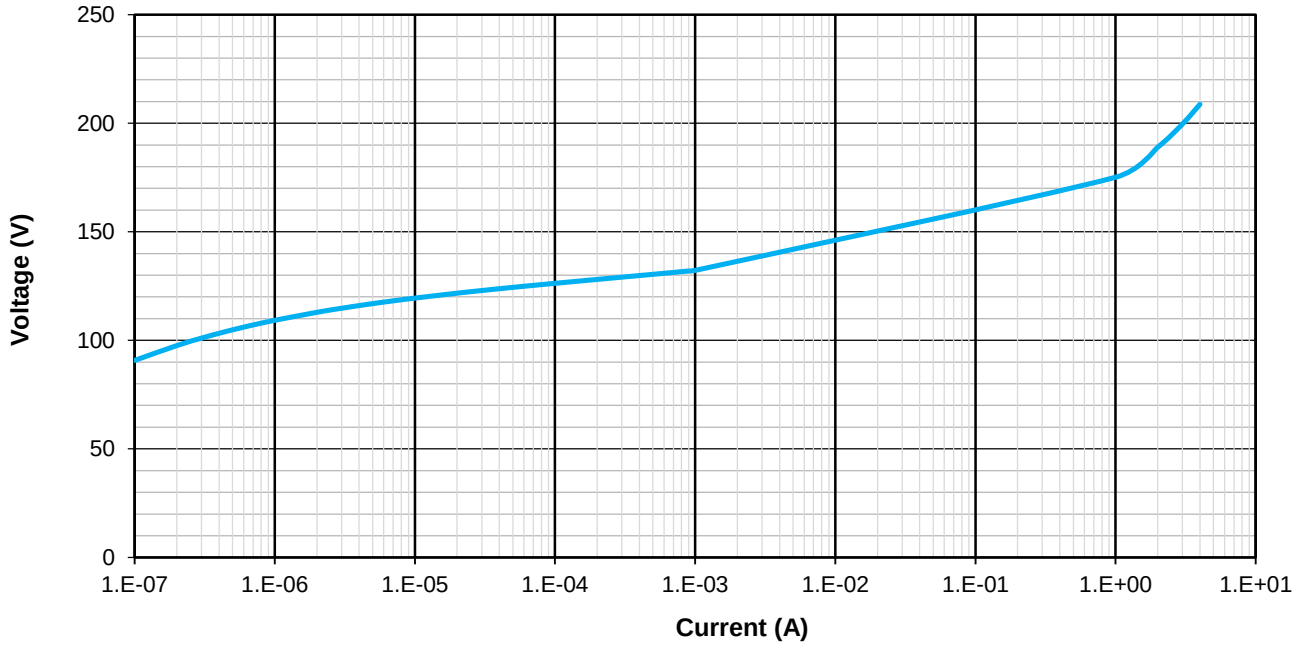
How to order (Packaging options)

CAN	0001	R	P
Style	Case Size	Packaging	Termination
	0001 = 0603	D = 7“ reel (1,000pcs) R = 7“ reel (4,000pcs) T = 13“ reel (10,000pcs)	P = Ni/Sn

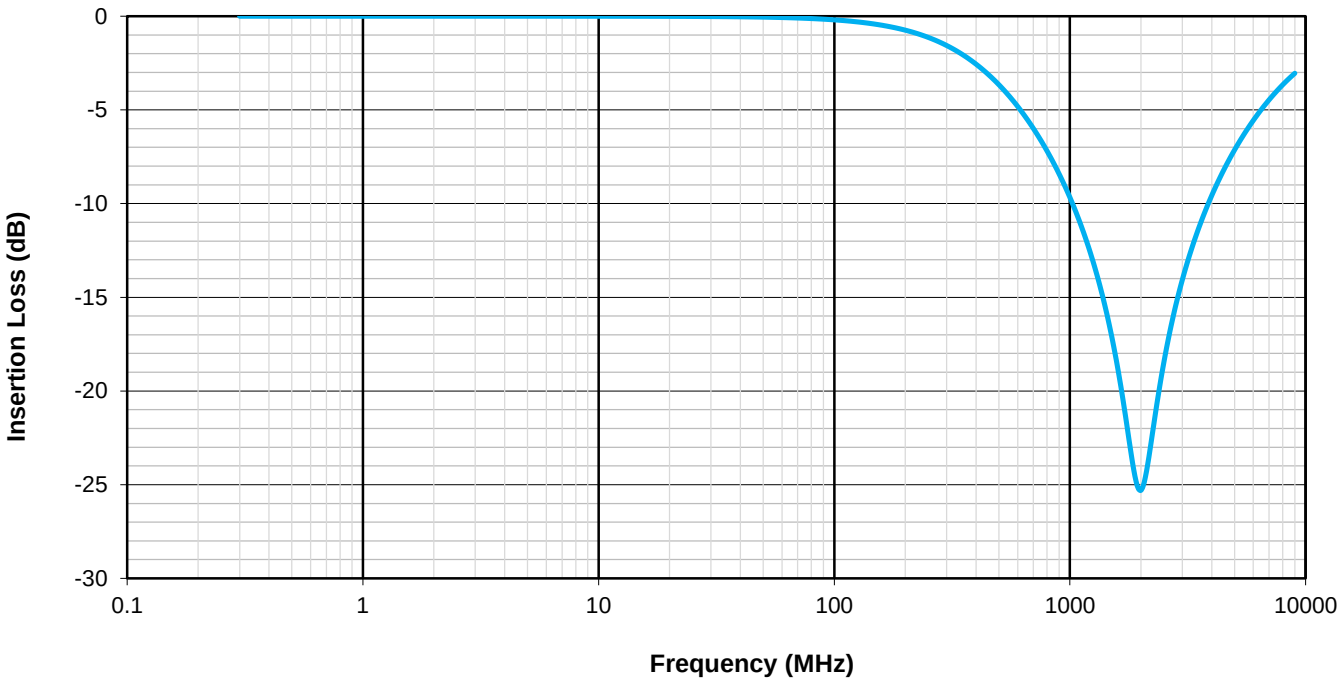
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



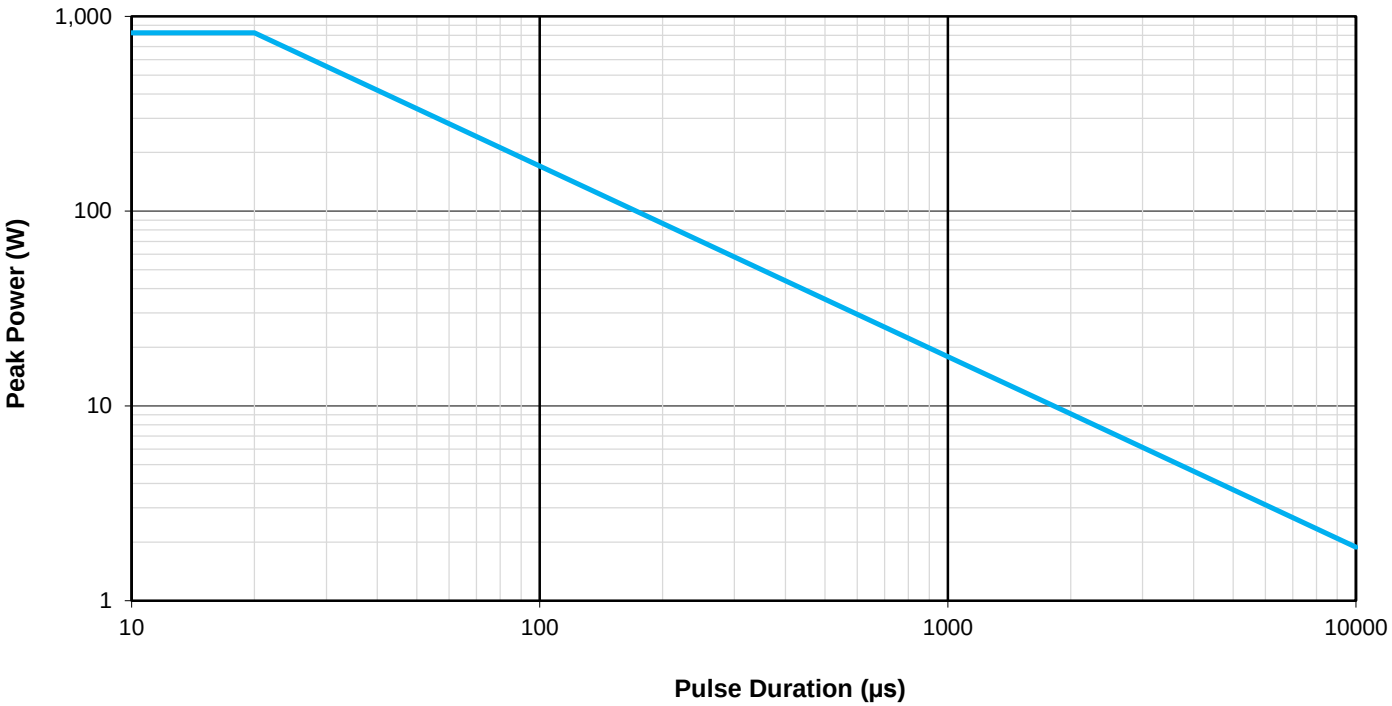
Voltage / Current Characteristics



S21 Characteristics



Power Derating



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