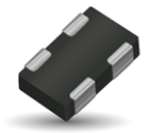
CANAT02DP

(0405 2x, 18Vdc, 0.015J, 2A, 22pF, Ni/Sn Term)

Low Capacitance Communication Bus Varistors +150°C

for Automotive, Industrial and General applications



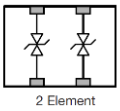
AEC-Q200 Qualified

Low Capacitance Communication Bus Varistors +150°C 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 in high temperature environment. Advantages include larger in-rush current capability compared to diodes, low loss/low signal distortione, very fast turn-on time, multiple strikes capabilities and EMI/RFI attenuation in single component.

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	PP	I_P	Cap	Cap Tol	V_{JUMP}	P_{DISS}
EIA	Vdc	Vac	V	V	A	µA	J	W	A	pF	-	V (5min)	W
0405 2x	18	14	70	145	1	4	0.015	11	2	22	Max	27.5	0.003



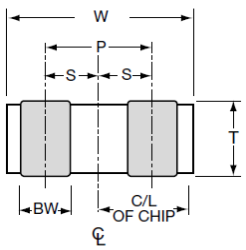
V_W(DC)	DC Working Voltage [V]
V_W(AC)	AC Working Voltage [V]
V_B	Typical Breakdown Votage [V @ 1mA$_{DC}$]
V_C	Clamping Voltage [V @ I_{VC}]
I_{VC}	Test Current for V_C [A, 8x20µs]
I_L	Maximum leakage current at the working voltage [µA]
E_t	Transient Energy Rating [J, 10x1000µS]
PP	Peak Power Rating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

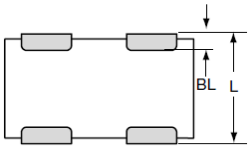
Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	BW
0405 2x	1.00±0.15	1.37±0.15	0.66 max	0.36±0.10
	(0.039±0.006)	(0.054±0.006)	(0.026 max)	(0.014±0.004)

BL	P	S
0.20±0.10	0.64 REF	0.32±0.10
(0.008±0.004)	(0.025 REF)	(0.013±0.004)





Termination

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

RoHS COMPLIANT

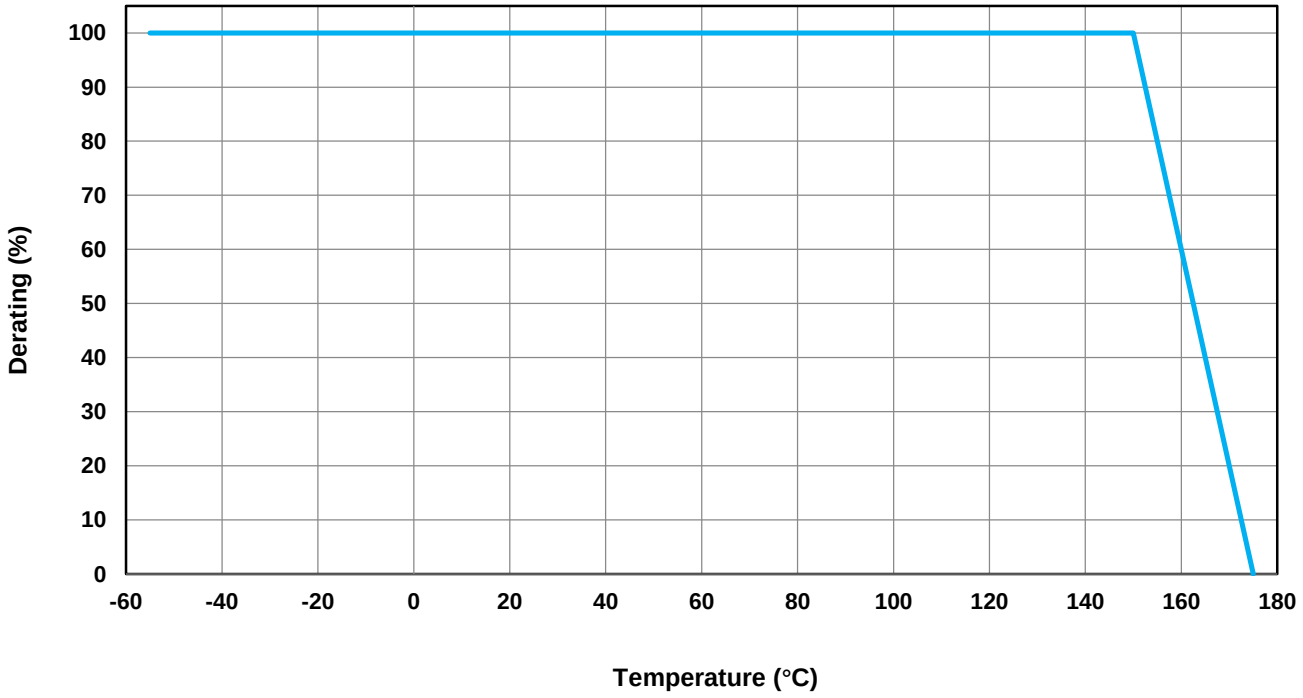
MSL 1

Pb Free 260°C

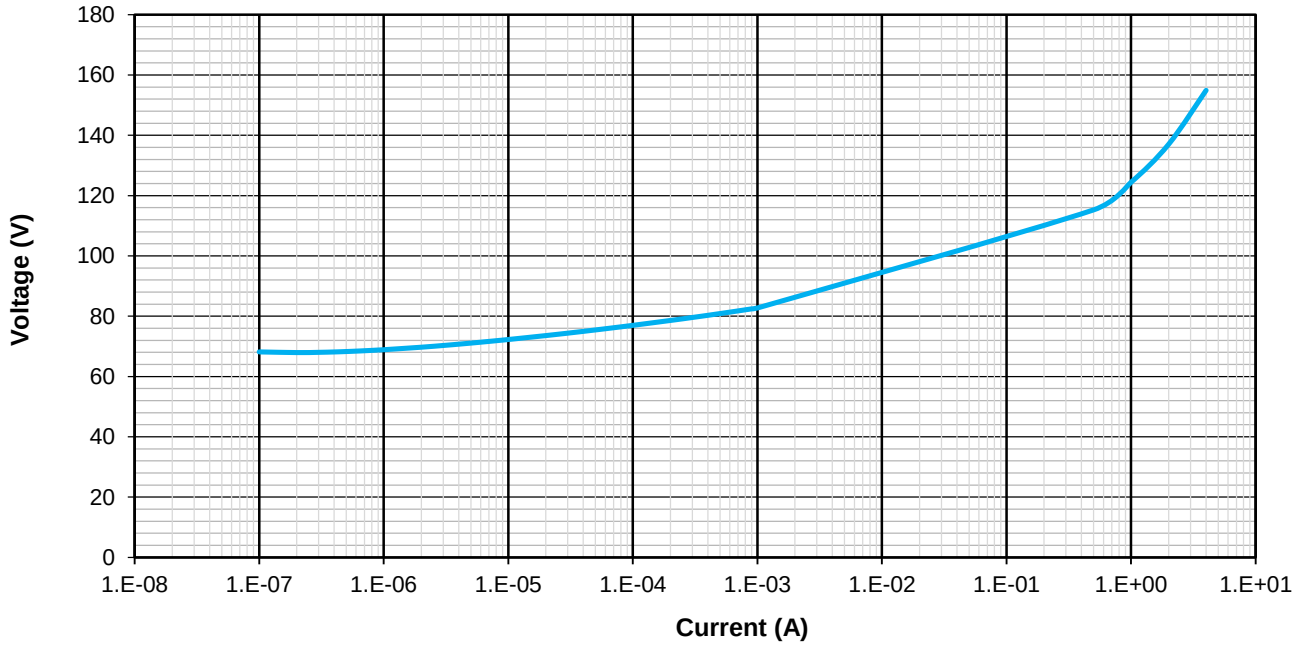
How to order (Packaging options)

CANAT	02	D	P
Style	Case Size	Packaging	Termination
	02 = 0405 2x	D = 7“ reel (1,000pcs) R = 7“ reel (4,000pcs) T = 13“ reel (10,000pcs)	P = Ni/Sn

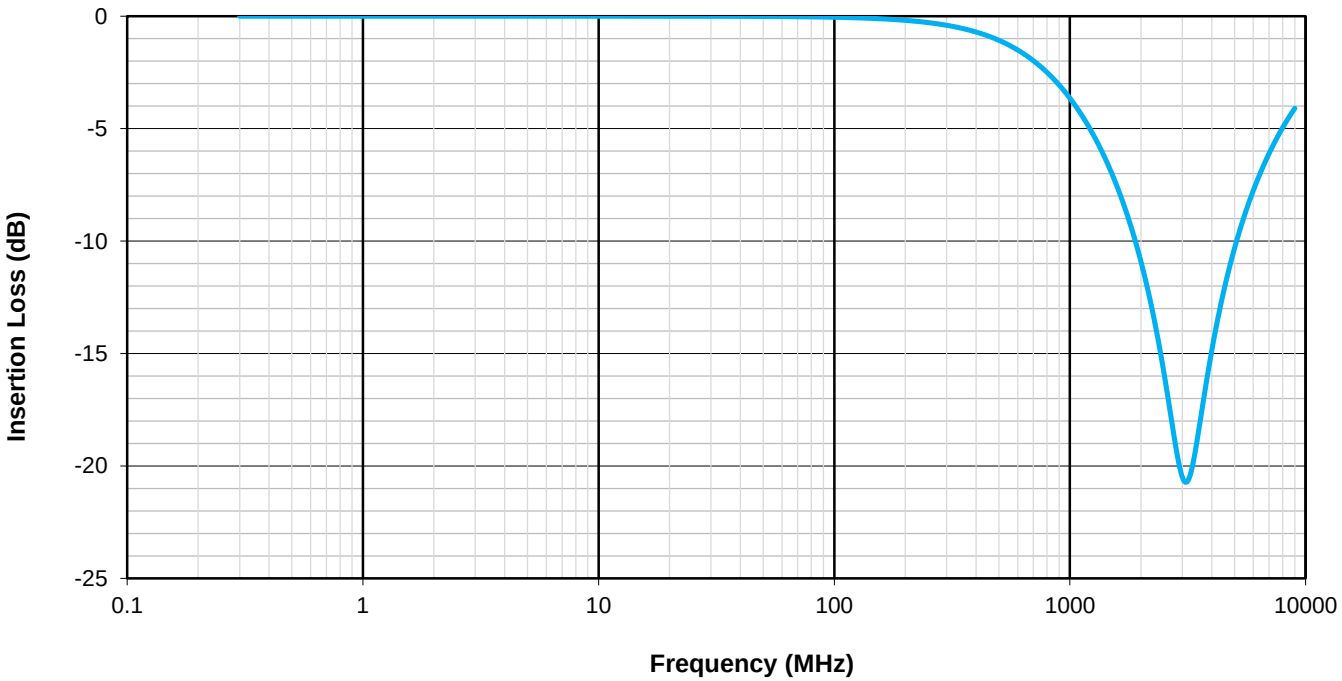
Typical Energy Derating Curve (Transient Energy, Peak Current, Power)



Voltage / Current Characteristics



S21 Characteristics



Power Derating