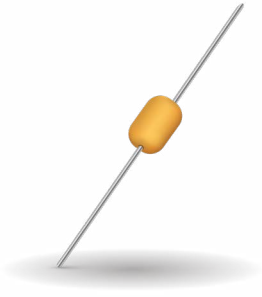


Axial TransGuard® and StaticGuard

Axial Multilayer Ceramic Transient Voltage Suppressors



GENERAL DESCRIPTION

Axial TransGuard® multilayer varistors are zinc oxide (ZnO) based ceramic semiconductor devices with non-linear voltage-current characteristics (bi-directional) similar to back-to-back zener diodes. They have the added advantage of greater current and energy handling capabilities as well as EMI/RFI attenuation.

Axial StaticGuard is low capacitance version of the TransGuard and are designed for general ESD protection of CMOS, Bi-Polar, and SiGe based systems.

KYOCERA AVX Axial varistors are designed for applications where leaded component is preferred and for durability in harsh environment.

GENERAL CHARACTERISTICS

- Operating Temperatures: -55°C to +125°C
- Working Voltage: 3.3 - 60Vdc
- Case Size: Axial
- Energy: 0.1 - 2.0J
- Peak Current: 30 - 300A

FEATURES

- Axial leaded, epoxy encapsulated
- Fast Response
- EMI/RFI filtering in the off-state
- Multiple strikes capability

APPLICATIONS

- White Goods
- Industrial Equipment
- Sensors
- Relays
- DC Motors
- and more

HOW TO ORDER - AXIAL TRANSGUARD®

VA ↓ Varistor Axial	1000 ↓ Case Size 1000 2000	26 ↓ Voltage 03 = 3.3Vdc 05 = 5.6Vdc 14 = 14Vdc 18 = 18Vdc 26 = 26Vdc 30 = 30Vdc 48 = 48Vdc 60 = 60Vdc	D ↓ Energy Rating A = 0.1J D = 0.4J K = 0.6J	400 ↓ Clamping Voltage 100 = 12V 150 = 18V 300 = 32V 400 = 42V 580 = 60V 650 = 67V 101 = 100V 121 = 120V	R ↓ Packaging D = 7" reel R = 7" reel T = 13" reel	L ↓ Termination L = Ni/Sn plated
-----------------------------------------	------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	---------------------------------------------------------



Packaging (Pcs/Reel:			
STYLE	D	R	T
VA1000	1,000	3,000	7,500
VA2000	1,000	2,500	5,000

HOW TO ORDER - AXIAL STATICGUARD

VA ↓ Varistor Axial	10 ↓ Case Size 10 = 1000	LC ↓ Low Capacitance	18 ↓ Voltage 18 = 18Vdc	A ↓ Energy Rating A = 0.1J	500 ↓ Clamping Voltage 500 = 50V	R ↓ Packaging D = 7" reel R = 7" reel T = 13" reel	L ↓ Termination L = Ni/Sn plated
-----------------------------------------	-------------------------------------------------	------------------------------------------	------------------------------------------------	---------------------------------------------------	---------------------------------------------------------	---------------------------------------------------------------------------------	---------------------------------------------------------

Axial TransGuard® and StaticGuard

Axial Multilayer Ceramic Transient Voltage Suppressors

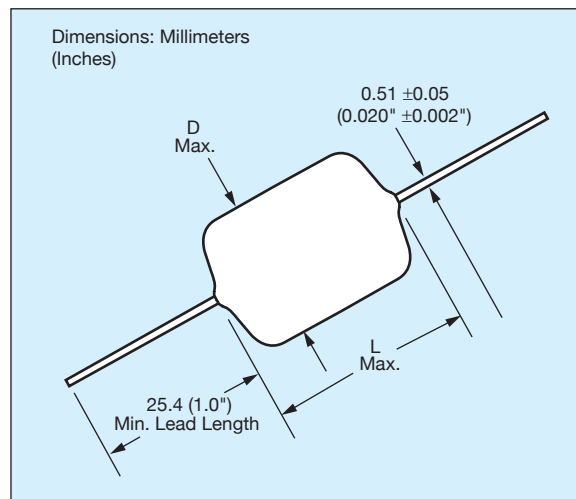
AXIAL TRANSGUARD®

Part Number	V _w (DC)	V _w (AC)	V _B	V _c	I _{vc}	I _L	E _T	I _p	Cap	Freq	Case
VA100003A100	3.3	2.3	5.0±20%	12	1	100	0.1	40	1500	K	1000
VA100003D100	3.3	2.3	5.0±20%	12	1	100	0.4	150	4700	K	1000
VA100005A150	5.6	4.0	8.5±20%	18	1	35	0.1	40	1000	K	1000
VA100005D150	5.6	4.0	8.5±20%	18	1	35	0.4	150	2800	K	1000
VA100014A300	14.0	10.0	18.5±12%	32	1	15	0.1	40	325	K	1000
VA100014D300	14.0	10.0	18.5±12%	32	1	15	0.4	150	1100	K	1000
VA100018A400	18.0	13.0	25.5±10%	42	1	10	0.1	40	350	K	1000
VA100018D400	18.0	13.0	25.5±10%	42	1	10	0.4	150	900	K	1000
VA100026D580	26.0	18.0	34.5±10%	60	1	10	0.4	120	650	K	1000
VA100030D650	30.0	21.0	41.0±10%	67	1	10	0.4	120	550	K	1000
VA100048D101	48.0	34.0	62.0±10%	100	1	10	0.4	100	200	K	1000
VA200060K121	60.0	42.0	76.0±10%	120	1	10	2.0	300	400	K	2000

AXIAL STATICGUARD

Part Number	V _w (DC)	V _w (AC)	V _B	V _c	I _{vc}	I _L	E _T	I _p	Cap	Freq	Case
VA10LC18A500	≤18.0	≤14.0	25-40	50	1	10	0.1	30	200	K	1000

- V_w(DC) DC Working Voltage [V]
- V_w(AC) AC Working Voltage [V]
- V_B Typical Breakdown Voltage (V @ 1mA_{DC})
- V_{B Tol} V_B Tolerance is ± from Typical Value
- 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)
- I_p Peak Current Rating (A, 8x20μS)
- Cap Typical Capacitance (pF) @ frequency specified and 0.5 V_{RMS}
- Freq Frequency at which capacitance is measured (K = 1kHz, M = 1MHz)



DIMENSIONS:

mm (inches)

Style		VA1000	VA2000
(L) Max Length	mm (in.)	4.32 (0.170)	4.83 (0.190)
(D) Max Diameter	mm (in.)	2.54 (0.100)	3.56 (0.140)

Lead Finish: Copper Clad Steel, Solder Coated

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View VA100005A150DL on WIN SOURCE](#)
- ⊖ [AVX Corp/Kyocera Corp Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management