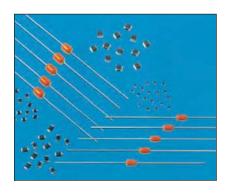
Axial TransGuard® and StaticGuard



AVX 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.

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

GENERAL CHARACTERISTICS

• Operating Temperatures: -55°C to +125°C

• Working Voltage: 3.3 - 60Vdc

Case Size: AxialEnergy: 0.1 - 2.0JPeak Current: 30 - 300A

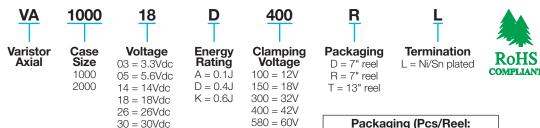
FEATURES

- 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®



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	STYLE	D	R	Т				
	VA1000	1,000	3,000	7,500				
121 = 120V	VA2000	1,000	2,500	5,000				

HOW TO ORDER - AXIAL STATICGUARD

48 = 48 Vdc

60 = 60 Vdc





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AXIAL TRANSGUARD®

AVX PN	V _W (DC)	V _w (AC)	V _B	V c	I _{vc}	Iμ	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

AVX PN	V _w (DC)	V _w (AC)	V _B	V c	I _{vc}	Iμ	E _T	I _P	Сар	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})

 $V_{\scriptscriptstyle B}$ Tol $V_{\scriptscriptstyle B}$ Tolerance is \pm from Typical Value $V_{\scriptscriptstyle C}$ Clamping Voltage (V @ $I_{\scriptscriptstyle VC}$)

 $I_{_{VC}}$ Test Current for $V_{_{C}}$ (A, 8x20 μ S)

I_L Maximum Leakage Current at the

Working Voltage (µA)

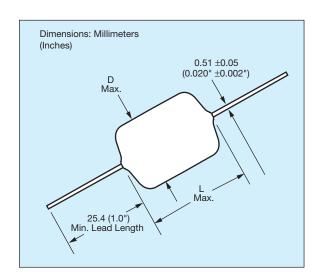
E_τ Transient Energy Rating (J, 10x1000μS)

 $I_{\mbox{\tiny P}}$ Peak Current Rating (A, 8x20 μ S)
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)

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

Lead Finish: Copper Clad Steel, Solder Coated



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX:

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VA100026D580BL VA100026D580RL VA100014D300DL VA100030D650DL VA100003D100DL

VA100048D101DL VA100018D400DL VA100018A400DL VA200060K121DL VA100005A150DL VA100014A300DL

VA100005D150DL VA100003A100DL VA100005D150RL VA100014D300RL VA100018D400RL VA100030D650RL

VA100003A100RL VA100003D100RL VA100005A150RL VA100014A300RL VA100018A400RL VA100048D101RL

VA200060K121RL VA100003D100D VA100026D580BL VA100018D400R VA100005A150BL VA100005D150D

VA100048D101TL VA200060K121D VA100030D650R VA100005A150R VA100014D300R VA100005A150TL

VA100030D650D VA100026D580TL VA100014A300R VA100003D100BL VA100018A400D VA100014D300D

VA100005D150TL VA100003A100R VA100014A300TL VA100048D101R VA100005D150R VA100030D650BL

VA100018D400D VA100005D150BL VA100003A100D VA10003D100R VA100005A150D VA100026D580D

VA100018D400TL VA100014D300TL VA100018A400R VA100003D100R VA100005A150D VA100026D580D
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