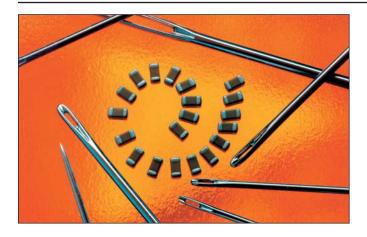
StaticGuard Automotive Series



Multilayer Varistors for Automotive Applications



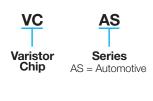
GENERAL DESCRIPTION

The StaticGuard Automotive Series are low capacitance versions of the TransGuard and are designed for general ESD protection of CMOS, Bi-Polar, and SiGe based systems. The low capacitance makes these products suitable for use in high speed data transmission lines.

FEATURES

- AEC Q200 Qualified
- ISO 7637 Pulse 1-3 capability
- Meet 27.5Vdc Jump Start requirements
- Multi-strike capability
- Sub 1nS response to ESD strike

HOW TO ORDER





08 = 0805







A = 0.10 Joules V = 0.02 Joules X = 0.05 Joules



Clamping Voltage 150 = 18V200 = 22V300 = 32V400 = 42V

500 = 50V



(PCS/REEL) D = 1,000R = 4,000T = 10,000W = 0402

10000





ELECTRIAL CHARACTERISTICS

| AVX Part Number | Working Voltage (DC) | Working Voltage (AC) | Clamping Voltage | Test Current For V _c | Maximum Leakage Current | Transient Energy Rating | Peak Current Rating | Typical Cap | Case Size | Power Dissipation |
|--------------------|----------------------------|----------------------------|---------------------|---------------------------------------|-------------------------------|-------------------------------|---------------------------|----------------|--------------|----------------------|
| VCAS04LC18V500 | ≤18.0 | ≤14.0 | 50 | 1 | 10 | 0.02 | 15 | 40 | 0402 | 0.0004 |
| VCAS06LC18X500 | ≤18.0 | ≤14.0 | 50 | 1 | 10 | 0.05 | 30 | 50 | 0603 | 0.001 |
| VCAS08LC18A500 | ≤18.0 | ≤14.0 | 50 | 1 | 10 | 0.10 | 30 | 80 | 0805 | 0.002 |

 $V_{w}(DC)$ DC Working Voltage (V) $V_{W}(AC)$ AC Working Voltage (V) V_{c} Clamping Voltage (V @ I_{VC}) Test Current for V_c (A, 8x20µS)

Maximum Leakage Current at the Working Voltage (µA)

E, Transient Energy Rating (J, 10x1000µS)

l_P Peak Current Rating (A, 8x20µS)

Typical Capacitance (pF) @ frequency specified and 0.5 V_{RMS} Cap

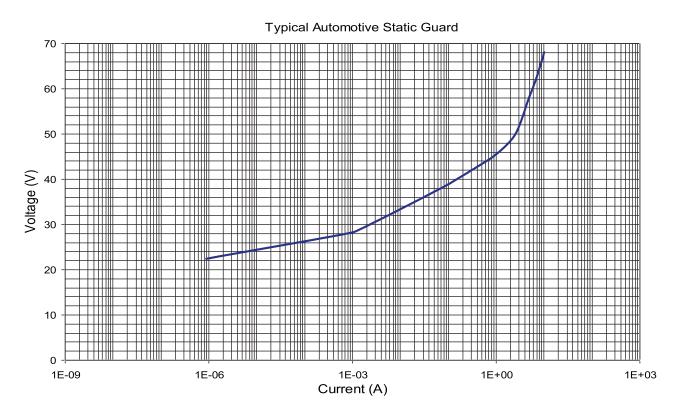


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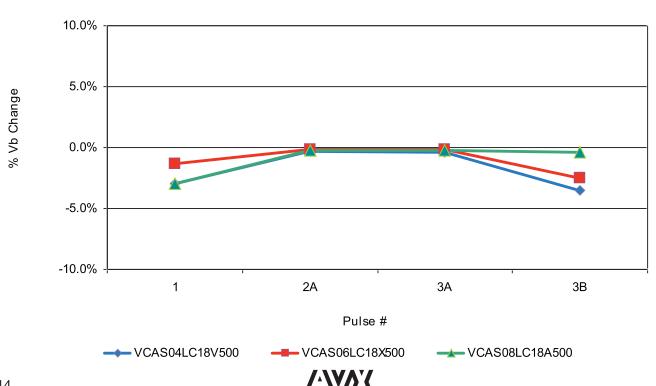
Multilayer Varistors for Automotive Applications

VOLTAGE/CURRENT CHARACTERISTICS



ELECTRICAL TRANSIENT CONDUCTION

ISO 7637 Pulse 1-3



StaticGuard Automotive Series



Multilayer Varistors for Automotive Applications

VOLTAGE/CURRENT CHARACTERISTICS

