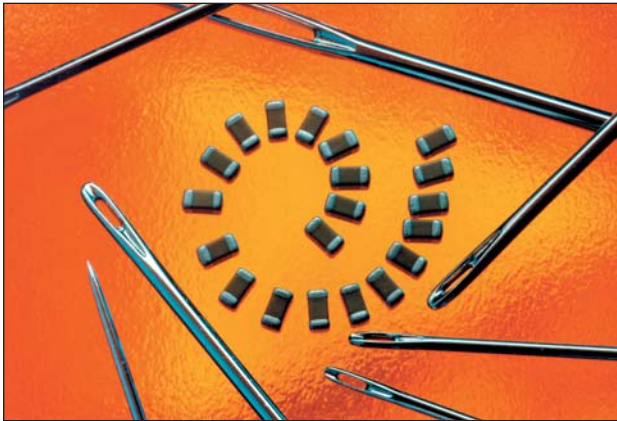


StaticGuard Automotive Series

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 automotive CAN and LIN bus communication lines as well as other high speed data transmission applications requiring low capacitance protection.

GENERAL CHARACTERISTICS

- Operating Temperature: -55°C to 125°C
- Working Voltage: $\leq 18\text{Vdc}$
- Case Size: 0402, 0603, 0805

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

APPLICATIONS

- CAN BUS
- LIN BUS
- CMOS
- Module interfaces
- Switches
- Sensors
- Camera modules
- Datalines
- Capacitance sensitive applications and more

HOW TO ORDER

VC	AS	06	LC	18	X	500	R	P
Varistor Chip	Series AS = Automotive	Case Size 04 = 0402 06 = 0603 08 = 0805	Low Cap Design	Working Voltage 18 = 18.0VDC	Energy Rating A = 0.10 Joules V = 0.02 Joules X = 0.05 Joules	Clamping Voltage 150 = 18V 200 = 22V 300 = 32V 400 = 42V 500 = 50V	Packaging (PCS/REEL) D = 1,000 R = 4,000 T = 10,000 W = 0402 10000	Termination P = Ni/Sn



ELECTRIAL CHARACTERISTICS

AVX PN	V _W (DC)	V _W (AC)	V _B	V _C	I _{VC}	I _L	E _T	I _P	Cap	Freq	V _{JUMP}	P _{DISS}	Size
VCAS04LC18V500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.02	15	40	M	27.5	0.0004	0402
VCAS06LC18X500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.05	30	50	M	27.5	0.001	0603
VCAS08LC18A500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.1	30	80	M	27.5	0.002	0805

V_W(DC) DC Working Voltage [V]
V_W(AC) AC Working Voltage [V]
V_B Typical Breakdown Voltage [V @ 1mA_{DC}, 25°C]
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, 25°C [µA]

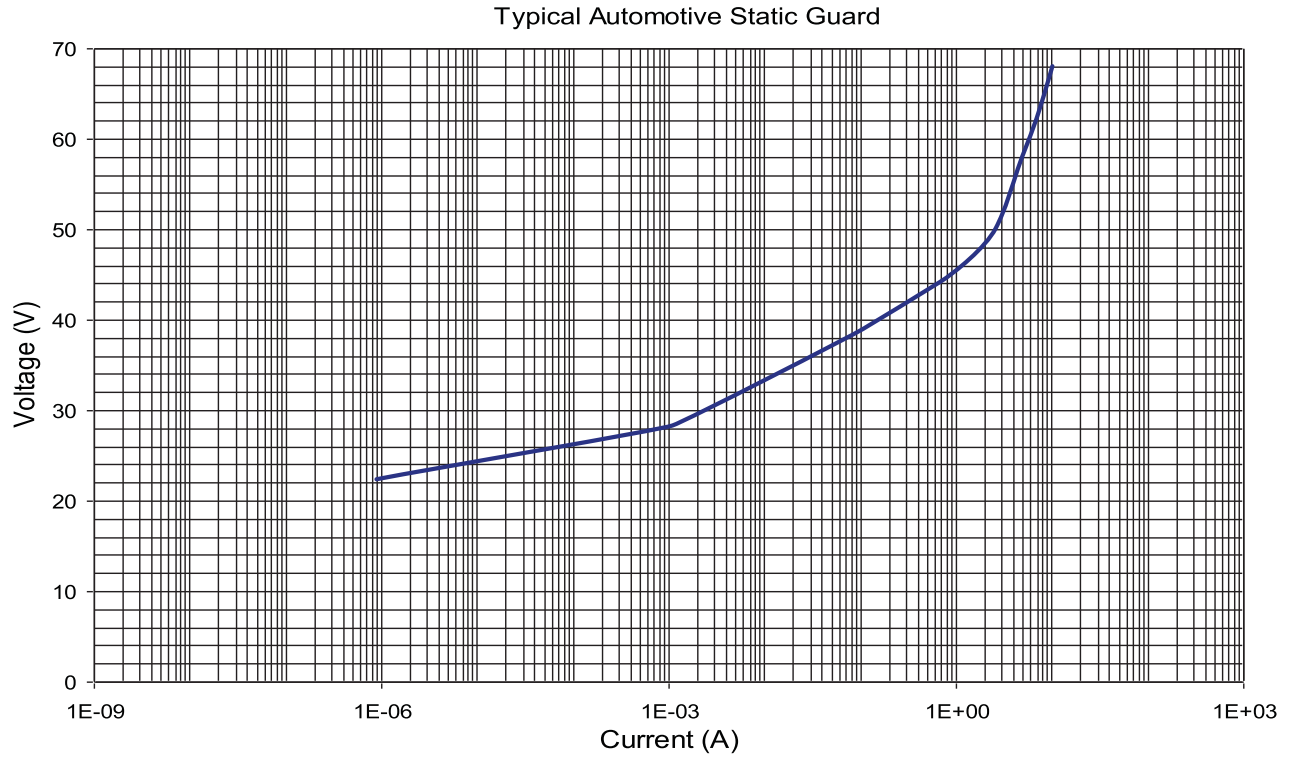
E_T Transient Energy Rating [J, 10x1000µs]
I_P Peak Current Rating [A, 8x20µs]
Cap Typical capacitance [pF] @ frequency specified and 0.5V_{RMS}, 25°C, M = 1MHz, K = 1kHz
V_{JUMP} Jump Start [V, 5 min]
P_{DISS} Power Dissipation [W]

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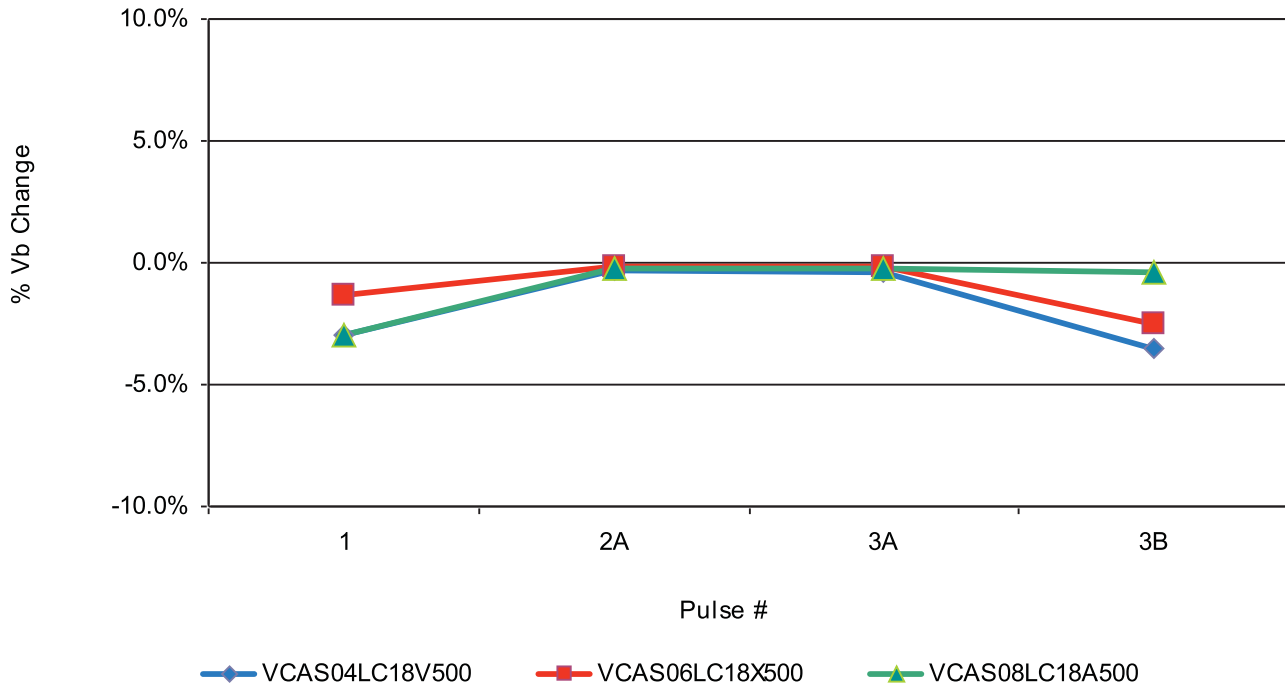


VOLTAGE/CURRENT CHARACTERISTICS



ELECTRICAL TRANSIENT CONDUCTION

ISO 7637 Pulse 1-3



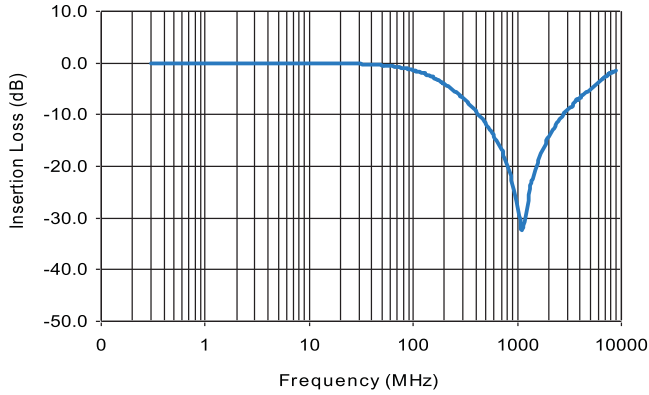
StaticGuard Automotive Series

Multilayer Varistors for Automotive Applications

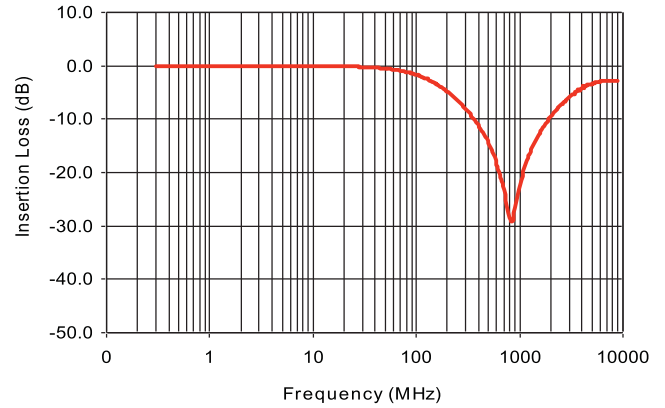


VOLTAGE/CURRENT CHARACTERISTICS

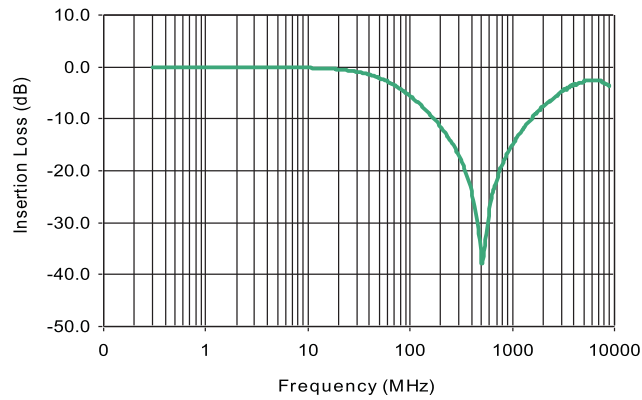
VCAS04LC18V500



VCAS06LC18X500



VCAS08LC18A500



单击下面可查看定价，库存，交付和生命周期等信息

[>>AVX](#)