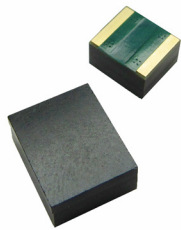




High surge SMD MOVS provide reliable protection in small footprints



Eaton's Metal Oxide Varistors (MOVS) are designed for high surge overvoltage protection in a host of computing, energy, and industrial applications and in surface mount footprints.

Product description

Eaton's Metal Oxide Varistors (MOVS) are designed for high surge overvoltage protection in a host of computing, energy, and industrial applications and in surface mount footprints. They are ideal for low to high-voltage circuits and can handle up to 1200 A of peak surge current and operate in up to 510 Vac distribution voltage. Eaton MOVS come in two industry-standard sizes of 2825 and 4032, providing an ideal balance of footprint and surge protection needs. These products have wide working voltages ranging from 11 Vac (14 Vdc) to 510 Vac (670 Vdc), allowing for simplified designs with multiple voltage levels and the possibility to maintain a single pad layout, depending on the circuit voltage. Eaton MOVS are suitable for use in AC and DC applications. Each product is ROHS compliant and UL recognized for superior reliability and safety.

Features and benefits

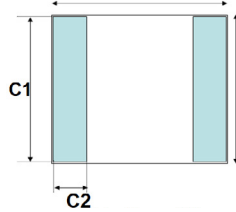
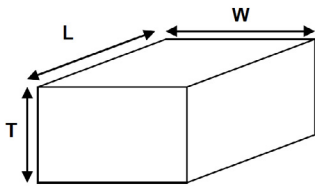
- Broad working voltage range (up to 510 Vac / 670 Vdc)
- SMT pick and place helps to reduce assembly cost compared to through-hole
- MOVS provide high surge current protection (up to 1200 A)
- SMD design can help lower product height compared to through-hole MOVS
- Has UL 1449 4th edition, Type 5 Surge Protective Device certifications
- Can pair with Eaton Bussmann's surface mount brick fuses (6125 and 1025 footprints)

Product specs

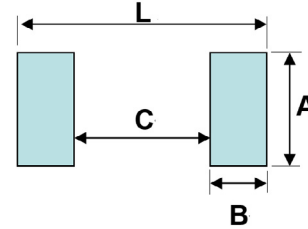
Part number	Working voltage		Varistor voltage @ 1 mAdc	Leakage current @ $V_r \times 80\%$ (at initial state)	Clamping voltage 8/20 μ s	Peak current 8/20 μ s	Component thickness
	V_{rms} (V) maximum	V_{dc} (V) maximum	V_r (V) typical	IL (μ A) maximum	V_c (V) maximum	i_{max} (A) maximum	T (mm) ± 0.3
MOVS2825VXXX	420	560	16.2-748	50	1120(5A)	400	3.2-5.6
MOVS4032VXXX	510	670	16.2-902	50	1355(10A)	1200	3.2-5.6

Dimensions- mm

Drawing not to scale



Recommended pad layout



MOVS2825VXXX

Dimension	Value
L	7.2 ± 0.2
W	6.4 ± 0.2
T	3.2 ± 0.3
	4.2 ± 0.3
	5.6 ± 0.3
C1	5.8 ± 0.3
C2	1.1 ± 0.3

Dimension	Value
A	6.8
B	1.5
C	4.6
L	7.6

MOVS4032VXXX

Dimension	Value
L	10.1 ± 0.2
W	8.2 ± 0.2
T	3.2 ± 0.3
	4.2 ± 0.3
	5.6 ± 0.3
C1	7.4 ± 0.3
C2	1.6 ± 0.3

Dimension	Value
A	8.6
B	2.2
C	6.2
L	10.6

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