



VAREN

Chip Varistors
Surface Mount Transient Voltage Suppressors

VAS SERIES

Features

Zinc oxide multilayer construction Designed for flow/reflow solderings. Excellent response against high steep surge voltage. (Less than 1ns) EIA sizes 0402, 0603, 0805, 1206 and 1210 High Current Rating (up to 500A) Low clamping voltage for better surge protection Large withstanding surge current capability in compact size.



Multilayer zinc oxide chip varistors are ideal for the suppression of voltage transients due to ESD, inductive discharge and electromagnetic energy. The VAS series of chip varistors were designed to provide transient protection to new, low voltage semiconductors and to aid in equipment compliance to CIS/IEC 801 specifications.

Characteristics & Dimensions (mm)

| Case Size | Working Voltage Range (@50 A Maximum Leakage Current) | Clamping Voltage Range (Based on 2-10 Amp 8/20uS Pulse) | Peak Current Rating (8/20uS Pulse Waveform) | Maximum Transient Energy Dissipated (8/20uS Pulse Waveform) | Length (L) | Width (W) | Thickness (T) | Overlap (C) |
|-----------|---|---|---|---|------------|------------|---------------|-------------|
| 0402 | 5.6 - 18V | 15.5- 40V | 20A | 0.05 J | 1.0 - 0,05 | 0.5 - 0.05 | 0.5 - 0.05 | 0.25 - 0.05 |
| 0603 | 3.3 - 30V | 10- 65V | 30A | 0.1 J | 1.6 - 0,15 | 0.8 - 0.15 | 0.9 Max. | 0.5 Max. |
| 0805 | 3.3 - 30V | 10- 65V | 30-120A | 0.1 - 0.3 J | 2.0 - 0,2 | 1.2 - 0.2 | 1.0 Max. | 0.8 Max. |
| 1206 | 3.3 - 48V | 10- 100V | 30-150A | 0.1 - 0.4 J | 3.2 - 0,2 | 1.6 - 0.2 | 1.0 Max. | 0.8 Max. |
| 1210 | 18 - 60V | 39- 120V | 220-500A | 0.9 - 1.5 J | 3.2 - 0,2 | 2.5 - 0.2 | 1.0 Max. | 0.8 Max. |

Shape & Dimension

