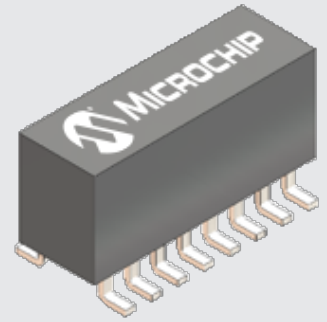


Surface Mount 3000W Vertical Transient Voltage Suppressor Array

Summary

Microchip is a leading supplier of TVS devices to the computer/peripheral, telecommunication, medial, automotive and military aerospace marketplace. Microchip offers voltage spike protection for virtually all commercial and higher reliability applications.

The MDA series of 3000W Transient Voltage Suppressors (TVSs) protects a variety of voltage-sensitive components from destruction or degradation. They can protect from secondary lightning effects per IEC61000-4-5 and class levels defined herein, or for inductive switching environments and induced RF protection. Since their response time is virtually instantaneous, they can also be used in protection from ESD and EFT per IEC61000-4-2 and IEC61000-4-4.



High-Reliability screening available
in reference to MIL-PRF-19500

Highlights

- Available in both unidirectional and bidirectional construction
- Selections for 6.0 to 40 volts standoff voltages (VWM)
- Optional up screening is available with various screening and conformance inspection options based on MIL-PRF-19500
- High reliability with wafer fabrication and assembly lot traceability
- All parts surge tested
- Suppresses transients up to 3,000W @ 10/1000 μ s
- Moisture classification is Level 1 with no dry pack required per IPC/JEDEC J-STD-020B
- 3σ lot norm screening performed on standby current (ID)

Mechanical and Packaging

- **Case:** void-free transfer molded thermosetting epoxy body meeting UL94V-0
- **Terminals:** tin-lead or annealed matte-tin plating readily solderable per MIL-STD-750, method 2026
- **Marking:** body marked with date code and part number. Pin 1 defined by a DOT on top of the package
- **Polarity:** odd number pins are cathodes of each TVS
- **Trays:** consult factory for quantities
- **Weight:** approximately 5 grams

Target Applications

