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Electronic and Multimedia Solutions

MDE Semiconductors

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On your disposal for 51 years!

Power TVS MAXPak

MDE Power TVS MAXPak Series are high current bidirectional Transient Voltage Suppressor (TVS) diodes with up to 288,000 watts of power are designed for use in AC line protection and high power DC bus clamping applications. These devices offer bidirectional port protection from 50 volts to 470 volts, and are RoHS and UL Recognized while also meeting IEC 61000-4-5 8/20 µs current surge requirements. Plus they also meet MIL-STD 1275 requirements. The use of silicon technology in the Power TVS MAXPak Series offers lower clamping voltage under surge compared to competing MOV technology.

Power TVS MAX -20 / 40 / 15kA

MDE Power TVS MAX-20 / 40 / 15kA series high current bidirectional Transient Voltage Suppressor (TVS) diodes with up to 40,000 watts of power are designed for RTCA /DO-160 rating for airborne equipment application. These devices offer bidirectional protection from 5.0 volts to 150 volts, and are RoHS compliant and UL recognized. They also meet MIL-STD 1275 requirements. The use of silicon technology in the Power MAX-20 / 40 / 15kA series offer lower clamping voltage under surge compared to competing MOV technology.

Custom Assemblies using MAX-20 / 40

Built to customer specific designs for board level SPD. Custom Assemblies are available using MAX20 Series 20KW Diodes stacked and configured to achieve customer unique voltage, power, or packaging requirements.

MDE SEMICONDUCTOR

MDE SEMICONDUCTOR is an innovative, quality oriented device manufacturer with a single minded focus on circuit protection products. Their Transient Voltage Suppression (TVS) devices are designed specifically for the protection of electronic systems from the destructive effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulse (NEMP), and inductive switching. All silicon devices are constructed with the famous low leakage glass passivation process with high-energy absorption capability from 400 watts up to 288’000 watts.

Two Terminal Thyristor

The P Series is designed for the telecommunication Industry. These products provide protection in accordance with FCC part 68, UL 1459, Bellcore 1089. ITU-TK, 20& K. 21

TVS Diode

Our Transient Voltage Suppression(TVS) devices are designed specifically for the protection of electronic systems from the destructive effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulse (NEMP), and inductive switching. All silicon devices are constructed with our famous low leakage glass passivation process with high-energy absorption capability from 400 watts up to 100 ,000 watts. Breakdown voltages start at 5.0 voltages up to 400 volts.

Thermally Protected MOV

Transient Tamer ™ MOV (TTMOV)
Surge Protective Device with thermal protection designed to open in the event of over heating due to an abnormal over-voltage, with high fault current. Approved to UL1449 4th Edition in File E337840

Surge Shield ™ MOV (SSMOV)
Surge Protective Device with thermal protection designed to open in the event of overheating due to an abnormal over-voltage, with high fault current. Approved to UL1449 4th Edition with ETL.

Metal Oxide Varistors MOV

MDE High Energy Metal Oxide Varistors “D” & “S” Series The High Energy Series large tab-leaded varistors are designed to handle high peak currents and have the ability to absorb large amounts of energy. Available in round (D) and square (S) shapes to allow mounting in various spaces and in bare disc form intended for special applications requiring unique electrical contact or packaging methods provided by the customer. The electrode finish of these devices is solderable and can be used with pressure contacts. Bare Disc Products are also available for certain applications where discs of the same diameter may be stacked.

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