



Micross designs and manufactures discrete power products in axial and surface-mount packages, as well as custom assemblies in various configurations. These high performance, rugged and reliable products are utilized in a wide range of applications, and are deployed in rockets, satellites, and missiles.



Rectifier Diode Construction:

- Category I Eutectic Bond
- Passivation - Glass Slurry
- Terminations - OFHC Copper with Hot Solder Dip for Either Axial or Surface Mount



Unipolar TVS Diode Construction:

- Category I Eutectic Bond
- Passivation - Die (Glass Sleeve for Added Strength)
- Terminations - OFHC Copper with Hot Solder Dip for Axial and Solder Plate Option for Surface Mount



Bipolar TVS Diode Construction:

- Category I Eutectic Bond
- Passivation - Die (Glass Sleeve for Added Strength)
- Heat Spreader
- Terminations - OFHC Copper with Hot Solder Dip for Axial and Surface Mount. Solder Plate Option for Surface Mount



ROBUST DESIGN & CONSTRUCTION

Micross' diodes are hermetic, non-cavity, double-plug construction with category I metallurgical bonds. They are listed on the Land & Maritime Qualified Products List, suitable for operation at temperatures ranging from -65°C to 175°C, and are qualified to JAN, JANTX, JANTXV, and JANS (Space) quality levels. Standard space-grade products include:

Zener Diodes

- Power Ratings of 1.5W and 5W

Rectifier Diodes

- JANS Standard, Fast, & Ultrafast Recovery

TVS Diodes

- Power Ratings of 500W and 1500W

Schottky Diodes

- 40V, 3A

Micross also offers catalog epoxy encapsulated rectifier assemblies (modules) and non-encapsulated, higher power density, open frame construction assemblies (ISOPACs). We offer the capability to perform custom screening and processing, as well as up-screening to Space grade equivalent and above.

Engineered for the Most Unforgiving Environments

ZENER DIODES

MIL-PRF-19500, Available in Axial Lead Packages & Surface Mount Packages

- /356: 5W Zener Voltage Regulators
- /406: 1.5W Zener Voltage Regulators



Axial Package



Surface Mount Package

RECTIFIER DIODES

MIL-PRF-19500, Available in Axial Lead Packages

- /411: Rectifiers
- /427: Rectifiers
- /429: Rectifiers

MIL-PRF-19500, Available in Axial Lead Packages & Surface Mount Packages

- /420: Rectifiers
- /477: Rectifiers



Axial Package

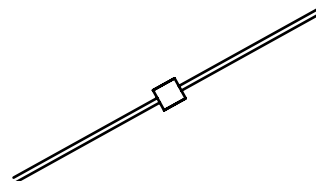


Surface Mount Package

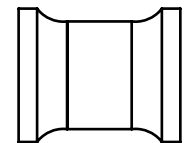
TVS DIODES

MIL-PRF-19500, Available in Axial Lead Packages & Surface Mount Packages

- /516: TVS Devices



Axial Package



Surface Mount Package

SCHOTTKY DIODES

MIL-PRF-19500, Available in Axial Lead Packages & Surface Mount Packages

- /620: Schottky Diodes



Axial Package



Surface Mount Package

ADDITIONAL TESTING

- Traceability to Wafer Level
- Single Diffusion Lot
- Single Lot Date Code
- Serialization – Laser Mark
- Attribute and Variable Data Available
- Fallout Summary Provided
- Guaranteed Homogeneity
- Up-Screening Available for Non-JANS Products



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