

MA4E929, MA4E932



Schottky Zero Bias Detector Diodes

M/A-COM Products
Rev. V1

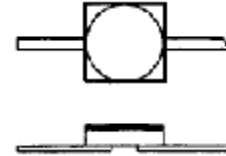
Features

- Can Be Used Without External Bias
- Exhibits Uniform Rv Characteristics
- Available In ODS-119 and ODS-186 Hermetic Ceramic Packages
- P Type Schottky Diode
- **RoHS Compliant**

Case Styles



ODS-119



ODS-186

Description and Applications

M/A-COM's ceramic packaged Zero Bias Detector (ZBD) diodes are designed for use in video detectors and power monitors eliminating the need to provide external DC bias to the diode. These devices are usable through the Ku band frequency range.

Maximum Ratings

| Parameter | Limits |
|------------------------|----------------------------|
| Operating Temperature | -65 Deg. C to + 150 Deg.C. |
| Storage Temperature | -65 Deg. C to + 150 Deg.C. |
| Incident RF Power (CW) | 100mW |
| Soldering Temperature | 260 Deg. C. max. |

1. Exceeding these limits may cause permanent damage.
2. Please refer to application note M538 for surface mounting instructions.

Specifications @ T_A = +25°C

| Model Number | Test Frequency (GHz) | Tangential Signal Sensitivity T _{SS} | Voltage Output (Eo) | Video Impedance Range (Rv) |
|--------------|----------------------|---|---------------------|----------------------------|
| | | Min. (dBm) | Min. (mV) | Min. - Max. (K Ohms) |
| MA4E929A-119 | 10 | -48 | 5 | .8 - 2 |
| MA4E929B-119 | 10 | -50 | 7 | 2 - 5 |
| MA4E932A-186 | 10 | -48 | 5 | .8 - 2 |
| MA4E932B-186 | 10 | -50 | 7 | 2 - 5 |