

# RECTIFIERS

Standard Recovery, 1 Amp to 2 Amp

UT236-UT347  
 UT249-UT363  
 UT251-UT364  
 UT261-UT268

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## FEATURES

- Continuous Rating: to 2A
- Controlled Avalanche
- Surge Rating: to 30A
- PIV: to 1000V
- Miniature Package

## DESCRIPTION

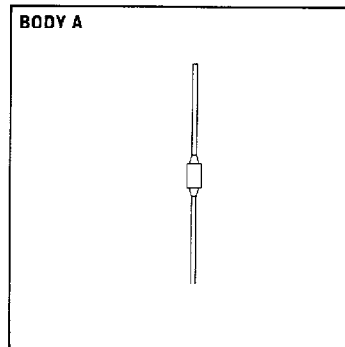
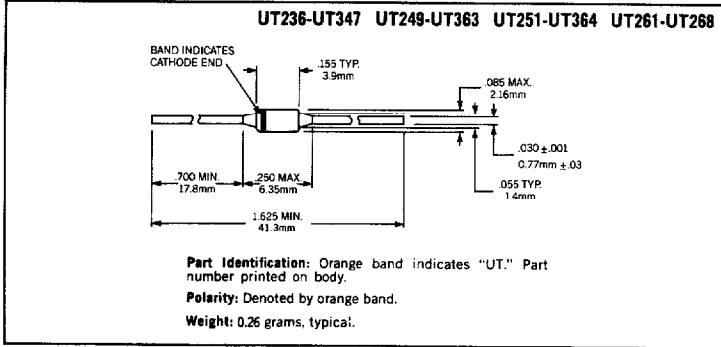
These miniature power rectifiers offer the user extreme reliability for high-reliability military supplies.

## ABSOLUTE MAXIMUM RATINGS

| Peak Inverse Voltage | 1 Amp Series | 1.25 Amp Series | 1.5 Amp Series | 2 Amp Series |
|----------------------|--------------|-----------------|----------------|--------------|
| 100V                 | UT236        | UT249           | UT251          | UT261        |
| 200V                 | UT234        | UT242           | UT252          | UT262        |
| 400V                 | UT235        | UT244           | UT254          | UT264        |
| 500V                 | UT237        | UT245           | UT255          | UT265        |
| 600V                 | UT238        | UT247           | UT257          | UT267        |
| 800V                 | UT361        | UT362           | UT258          | UT268        |
| 1000V                | UT347        | UT363           | UT364          |              |

|                                     | 1 AMP SERIES                         | 1.25 AMP SERIES | 1.5 AMP SERIES | 2 AMP SERIES |
|-------------------------------------|--------------------------------------|-----------------|----------------|--------------|
| Maximum Average D.C. Output Current |                                      |                 |                |              |
| @ T <sub>A</sub> = 25°C             | 1.0A                                 | 1.25A           | 1.5A           | 2.0A         |
| @ T <sub>A</sub> = 100°C            | 0.5A                                 | 0.65A           | 0.75A          | 1.0A         |
| Non-Repetitive Sinusoidal           |                                      |                 |                |              |
| Surge (8.3ms)                       | 20A                                  | 20A             | 25A            | 30A          |
| Operating Temperature Range         | -195°C to +175°C                     |                 |                |              |
| Storage Temperature Range           | -195°C to +175°C                     |                 |                |              |
| Thermal Resistance                  | See lead temperature derating curve. |                 |                |              |

## MECHANICAL SPECIFICATIONS

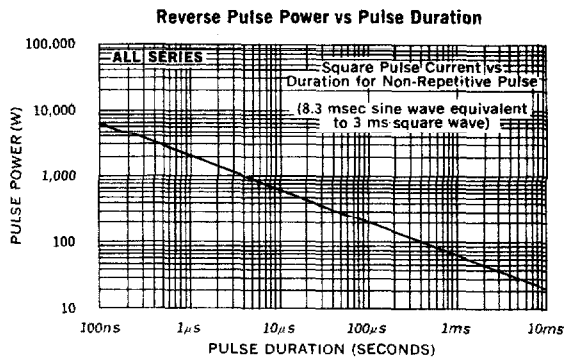
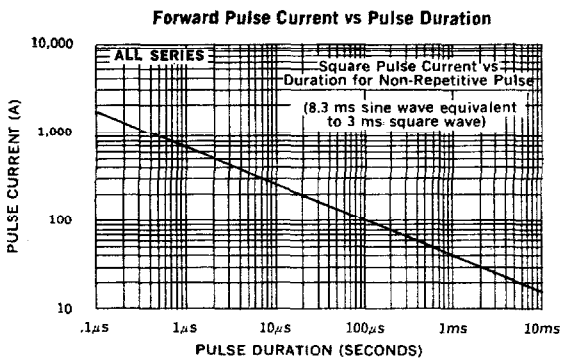
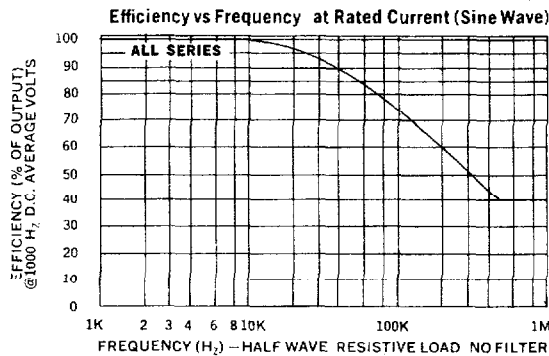
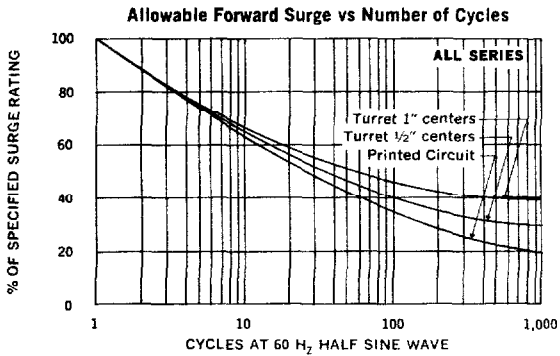


THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

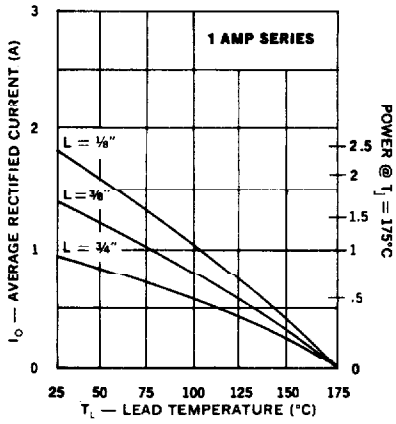
**Microsemi Corp.**  
**Watertown**  
 The diode experts

**ELECTRICAL SPECIFICATIONS (at 25°C unless noted)**

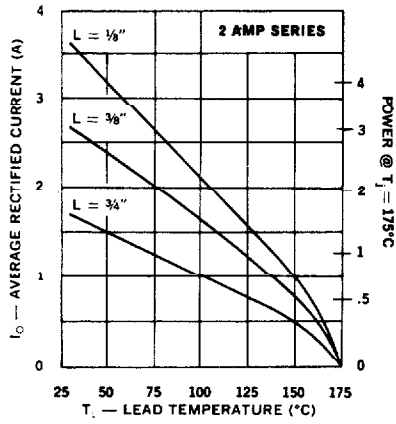
| Type  | PIV   | Maximum Forward Voltage Drop | Maximum Leakage Current @ PIV |       |
|---|---|------------------------------|-------------------------------|-------|
|   |   |                              | 25°C                          | 100°C |
| UT261<br>UT262<br>UT264<br>UT265<br>UT267<br>UT268          | 100V<br>200V<br>400V<br>500V<br>600V<br>800V          | 1V @ 900mA                   | 2μA                           | 75μA  |
| UT251<br>UT252<br>UT254<br>UT255<br>UT257<br>UT258<br>UT364 | 100V<br>200V<br>400V<br>500V<br>600V<br>800V<br>1000V | 1V @ 750mA                   | 2μA                           | 75μA  |
| UT249<br>UT247<br>UT244<br>UT245<br>UT247<br>UT362<br>UT363 | 100V<br>200V<br>400V<br>500V<br>600V<br>800V<br>1000V | 1V @ 500mA                   | 2μA                           | 75μA  |
| UT236<br>UT234<br>UT235<br>UT237<br>UT238<br>UT361<br>U1347 | 100V<br>200V<br>400V<br>500V<br>600V<br>800V<br>1000V | 1V @ 400mA                   | 2μA                           | 75μA  |



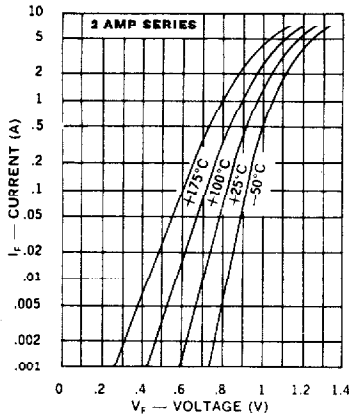
Maximum Current vs Lead Temperature



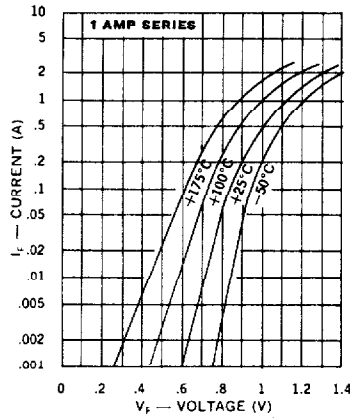
Maximum Current vs Lead Temperature



Typical Forward Current vs Forward Voltage



Typical Forward Current vs Forward Voltage



Typical Leakage Current vs. PIV

