

RECTIFIERS

Standard Recovery, 1 Amp to 2 Amp

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

2

FEATURES

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

DESCRIPTION

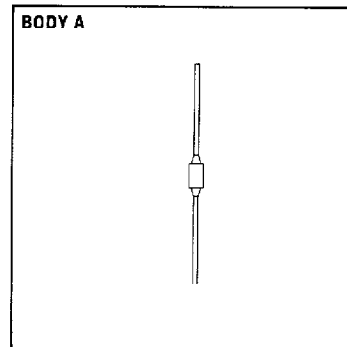
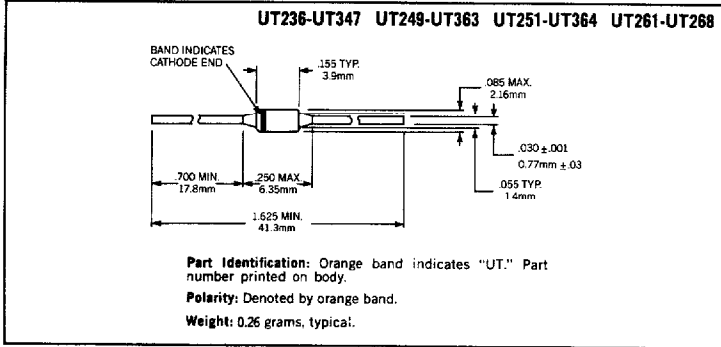
These miniature power rectifiers offer the user extreme reliability for high-reliability military supplies.

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 | | | | |
| @ $T_A = 25^\circ\text{C}$ | 1.0A | 1.25A | 1.5A | 2.0A |
| @ $T_A = 100^\circ\text{C}$ | 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. | | | |

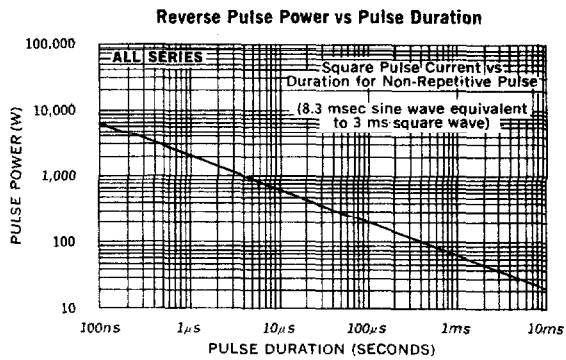
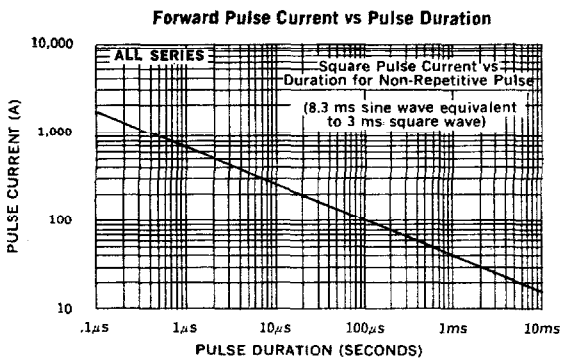
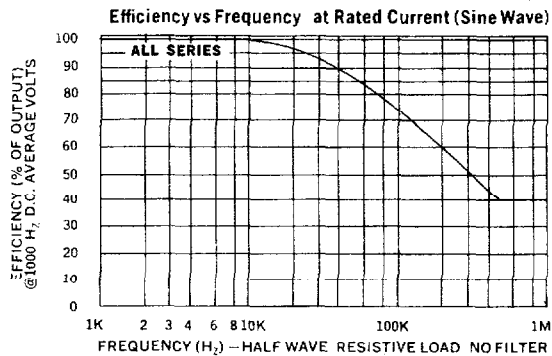
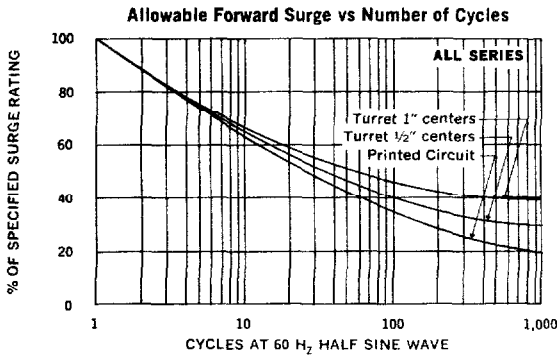
MECHANICAL SPECIFICATIONS



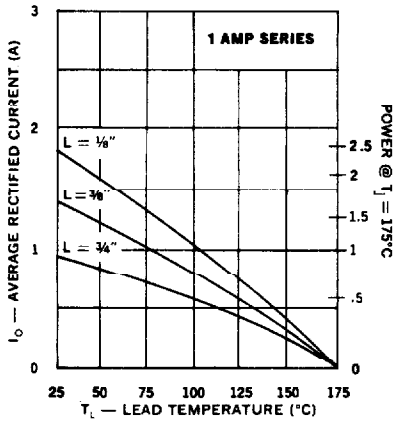
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

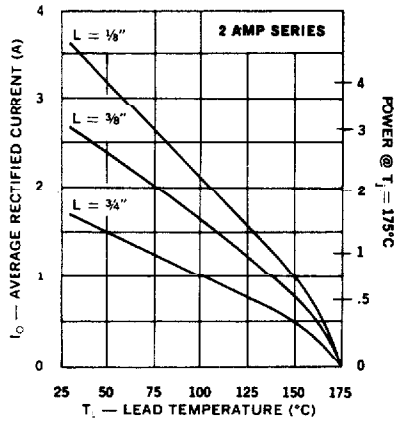
| Type | PIV | Maximum Forward Voltage Drop | Maximum Leakage Current @ PIV | |
|---|---|------------------------------|-------------------------------|-------|
| | | | 25°C | 100°C |
| UT261 UT262 UT264 UT265 UT267 UT268 | 100V 200V 400V 500V 600V 800V | 1V @ 900mA | 2μA | 75μA |
| UT251 UT252 UT254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



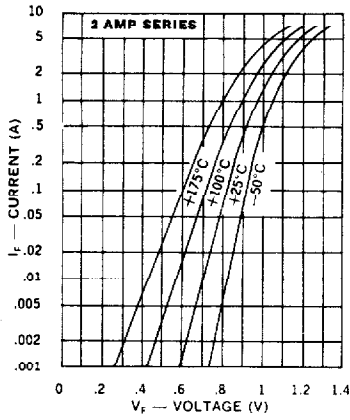
Maximum Current vs Lead Temperature



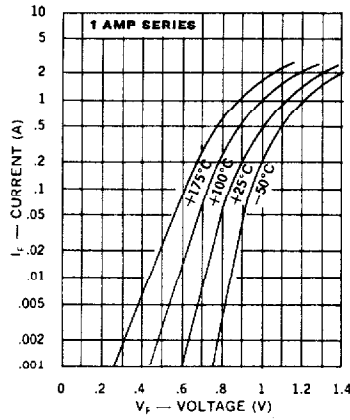
Maximum Current vs Lead Temperature



Typical Forward Current vs Forward Voltage



Typical Forward Current vs Forward Voltage



Typical Leakage Current vs. PIV

