Super-Fast Recovery, 3 Amp and 4 Amp

FEATURES

- Continuous Rating: to 4A
- · Controlled Avalanche
- Surge: to 80A
- Recovery Time less than 100ns
- Miniature Package

DESCRIPTION

These miniature super-fast recovery rectifiers permit operation at full power at frequencies as high as 100kHz square wave. They have the same unique Microsemi construction as the familiar 2 amp UTX series, but are scaled up in size to provide higher continuous and surge current capability.

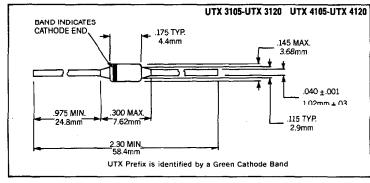
UTX 3105-UTX 3120 UTX 4105-UTX 4120

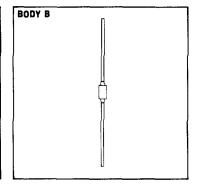
ABSOLUTE MAXIMUM RATINGS

| Peak Inverse Voltage | 3 Amp Series | 4 Amp Series |
|----------------------|-----------------|-----------------|
| 50V | UTX 3105 | UTX 4105 |
| 100V | UTX 3110 | UTX 4110 |
| 150V | UTX 3115 | UTX 4115 |
| 200V | LITX 3120 | UTX 4120 |

| Maximum Average D.C. Output Current | 3 AMP Series | 4 AMP SERIES |
|-------------------------------------|---------------------------|-----------------|
| @ T ₂ == 25°C | 3.0A | 4.OA |
| @ T ₄ = 100°C | 1.5A | 2.0A |
| Non-Repetitive Sinusoidal | | |
| Surge Current (8.3ms) | 60A | 80A |
| Operating Temperature Range | 195°C to | 175°C |
| Storage Temperature Range | 195°C to - | -200°C |
| Thermal Resistance | See Lead Temperature Dera | ating Curve |

MECHANICAL SPECIFICATIONS





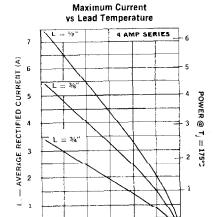


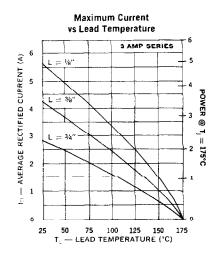
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ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

| Type PIV | Maximum Forward Voltage Drop* | Maximum Leakage Current @ PIV | | Maximum Reverse Recovery | |
|--|-------------------------------------|----------------------------------|-------------|--------------------------|-------|
| | | 25°C | 100°C | Tîme** | |
| UTX 4105 UTX 4110 UTX 4115 UTX 4120 | 50V 100V 150V 200V | 1V @ 3 Adc | 5μ Α | 75μΑ | 100ns |
| UTX 3105 UTX 3110 UTX 3115 UTX 3120 | 50V 100V 150V 200V | 1V @ 2 Adc | 5μΑ | 75µA | 100ns |

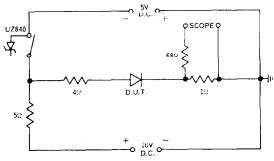
^{*}Forward voltage is measured at least 1 second after application of current.
**Recovery time is measured from 1A to 1A recovering to 0.5A.

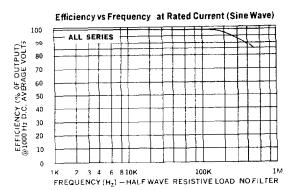




Reverse Recovery Circuit

50 75 100 125 150 175 T - LEAD TEMPERATURE (°C)





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