

UNISONIC TECHNOLOGIES CO., LTD

UMUR1560 Preliminary DIODE

SWITCHMODE POWER RECTIFIERS

DESCRIPTION

The UTC UMUR1560 is a switchmode power rectifiers, it uses UTC's advanced technology to provide customers with low forward drop and low leakage current, etc.

The UTC UMUR1560 is suitable for inverters and switching power supplies, etc.

FEATURES

- * Low forward drop voltage
- * High voltage capability
- * Low leakage current

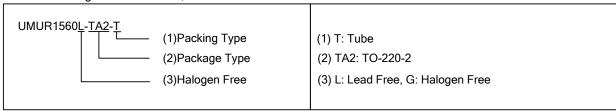
SYMBOL

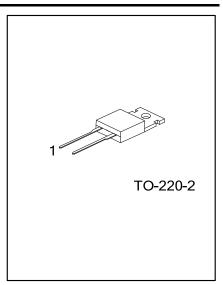


ORDERING INFORMATION

| Ordering Number | | Dookogo | Pin Assignment | | | Dooking | |
|-----------------|-----------------|----------|----------------|---|----|---------|--|
| Lead Free | Halogen Free | Package | 1 | 2 | 3 | Packing | |
| UMUR1560L-TA2-T | UMUR1560G-TA2-T | TO-220-2 | K | Α | NC | Tube | |

Note: Pin Assignment: A: Anode, K: Cathode





■ ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | RATINGS | UNIT |
|---|--------------------|----------|------|
| DC Blocking Voltage | V_R | 600 | ٧ |
| Working Peak Reverse Voltage | V_{RWM} | 600 | ٧ |
| Peak Repetitive Reverse Voltage | V_{RRM} | 600 | ٧ |
| Average Rectified Forward Current (Rated V _R), T _C =145°C | I _{F(AV)} | 15 | Α |
| Peak Repetitive Forward Current (Rated V _R , Square Wave, 20kHz), T _C =145°C | I _{FRM} | 30 | Α |
| Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz) | I _{FSM} | 150 | Α |
| Operating Junction Temperature | TJ | -65~+175 | °C |
| Storage Temperature | T _{STG} | -65~+175 | °C |

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS

| PARAMETER | SYMBOL | RATINGS | UNIT |
|---------------------|---------------|---------|------|
| Junction to Case | θ_{JC} | 4.25 | °C/W |
| Junction to Ambient | θ_{JA} | 75 | °C/W |

■ ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|--|-----------------|--|-----|-----|------|------|
| Instantaneous Forward Voltage (Note 1) | l V⊏ | I _F =15A, T _C =25°C | | | 1.50 | ٧ |
| | | I _F =15A, T _C =150°C | | | 1.20 | V |
| Instantaneous Reverse Current (Note 1) | l In | Rated DC Voltage, T _C =25°C | | | 10 | μΑ |
| | | Rated DC Voltage, T _C =150°C | | | 1000 | μΑ |
| Reverse Recovery Time | t _{RR} | I _F =1.0A, di/dt=50A/μs | | 60 | 70 | ns |

Note: Pulse Test: Pulse Width=300µs, Duty Cycle≤2.0%.

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