

UF1000CT – UF1008CT

10A ULTRAFAST GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

Case: Molded Plastic

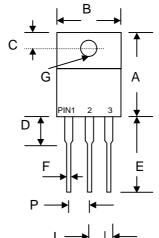
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

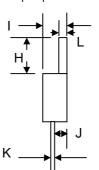
Polarity: See Diagram

Weight: 2.24 grams (approx.)

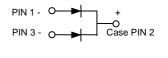
Mounting Position: Any

Marking: Type Number





| TO-220 | | | | | | |
|----------------------|---------|--------|--|--|--|--|
| Dim | Min Max | | | | | |
| Α | 14.9 | 15.1 | | | | |
| В | | 10.5 | | | | |
| С | 2.62 | 2.87 | | | | |
| D | 3.56 | 4.06 | | | | |
| Е | 13.46 | 14.22 | | | | |
| F | 0.68 | 0.94 | | | | |
| G | 3.74 Ø | 3.91 Ø | | | | |
| Н | 5.84 | 6.86 | | | | |
| ı | 4.44 | 4.70 | | | | |
| J | 2.54 | 2.79 | | | | |
| K | 0.35 | 0.64 | | | | |
| L | 1.14 | 1.40 | | | | |
| Р | 2.41 | 2.67 | | | | |
| All Dimensions in mm | | | | | | |



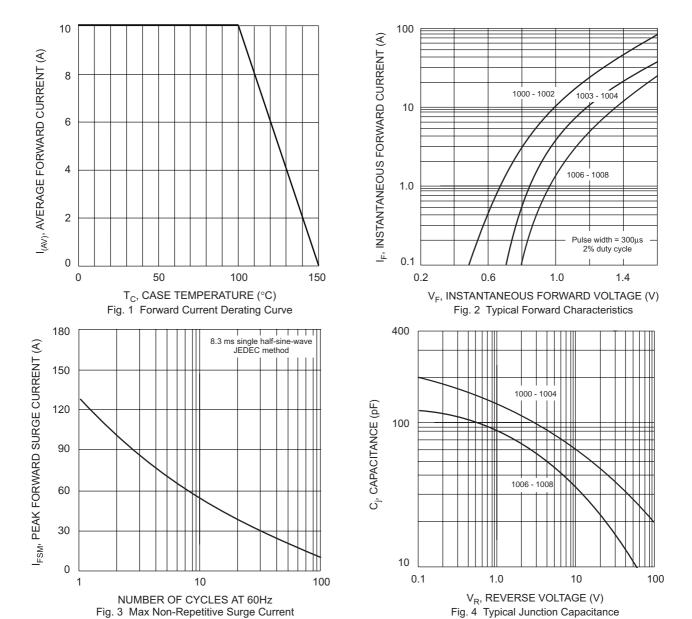
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | UF 1000CT | UF 1001CT | UF 1002CT | UF 1003CT | UF 1004CT | UF 1006CT | UF 1008CT | Unit |
|---|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 50 | 100 | 200 | 300 | 400 | 600 | 800 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 210 | 280 | 420 | 560 | V |
| Average Rectified Output Current @T _C = 100°C | lo | 10 | | | | | | Α | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 125 | | | | | Α | | |
| Forward Voltage @I _F = 5.0A | VFM | 1.0 1.3 1.7 | | | .7 | V | | | |
| | IRM | 10 400 | | | | | μΑ | | |
| Reverse Recovery Time (Note 1) | trr | 50 100 | | | | nS | | | |
| Typical Junction Capacitance (Note 2) | Cj | 80 50 | | | | 0 | pF | | |
| Operating and Storage Temperature Range | Тj, Tsтg | -65 to +150 | | | | | °C | | |

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| UF1000CT | TO-220 | 50 Units/Tube |
| UF1001CT | TO-220 | 50 Units/Tube |
| UF1002CT | TO-220 | 50 Units/Tube |
| UF1003CT | TO-220 | 50 Units/Tube |
| UF1004CT | TO-220 | 50 Units/Tube |
| UF1006CT | TO-220 | 50 Units/Tube |
| UF1008CT | TO-220 | 50 Units/Tube |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

