

UF1600CT – UF1608CT

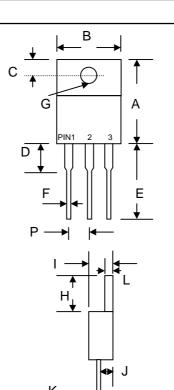
16A ULTRAFAST GLASS PASSIVATED RECTIFIER

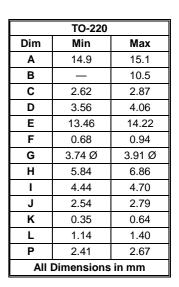
Features

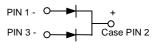
- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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





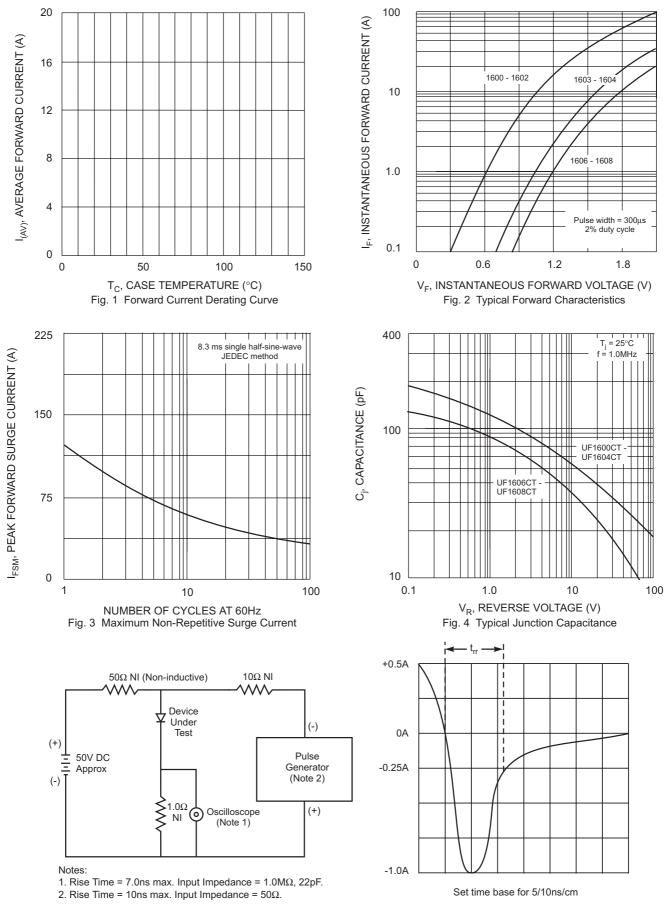


Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

| Characteristic | Symbol | UF 1600CT | UF 1601CT | UF 1602CT | UF 1603CT | UF 1604CT | UF 1606CT | UF 1608CT | 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 = 105°C | lo | 16 | | | | | А | | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 125 | | | | | A | | |
| Forward Voltage @I _F = 8.0A | VFM | 1.0 1.3 | | | 1 | .7 | V | | |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$ | Iгм | 10 500 | | | | | μA | | |
| Reverse Recovery Time (Note 1) | trr | 50 100 | | | 00 | nS | | | |
| Typical Junction Capacitance (Note 2) | Cj | 80 50 | | | pF | | | | |
| Operating and Storage Temperature Range | Tj, Tstg | -65 to +150 | | | °C | | | | |

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.





ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity | | | |
|-------------|--------------|-------------------|--|--|--|
| UF1600CT | TO-220 | 50 Units/Tube | | | |
| UF1601CT | TO-220 | 50 Units/Tube | | | |
| UF1602CT | TO-220 | 50 Units/Tube | | | |
| UF1603CT | TO-220 | 50 Units/Tube | | | |
| UF1604CT | TO-220 | 50 Units/Tube | | | |
| UF1606CT | TO-220 | 50 Units/Tube | | | |
| UF1608CT | 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.

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