



Direct Channel Worldwide Corp.

8F., No. 14, San Ming Rd., Shindian City, Taipei County 231,
Taiwan (R.O.C)
T: 886 2 8911 3828 F: 886 2 8911 3829

UF4001 THRU UF4007

Features

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 25°C/W

| Item Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|----------------|--|---------------------|-----------------------------|
| UF4001 | --- | 50V | 35V | 50V |
| UF4002 | --- | 100V | 70V | 100V |
| UF4003 | --- | 200V | 140V | 200V |
| UF4004 | --- | 400V | 280V | 400V |
| UF4005 | --- | 600V | 420V | 400V |
| UF4006 | --- | 800V | 560V | 800V |
| UF4007 | --- | 1000V | 700V | 1000V |

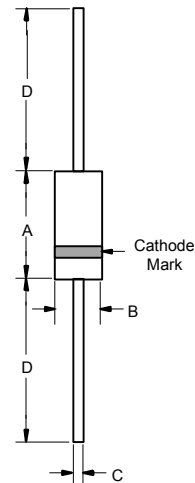
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1 A | $T_A = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 30A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.0 V 1.3 V 1.7 V | $I_{FM} = 1.0\text{A};$ $T_A = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 100 μA | $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ |
| Maximum Reverse Recovery Time | T_{rr} | 50ns 75ns | $I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$ |
| Typical Junction Capacitance | C_J | 20pF 10pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

1 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts

DO-41



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .166 | .205 | 4.10 | 5.20 | |
| B | .080 | .107 | 2.00 | 2.70 | |
| C | .028 | .034 | .70 | .90 | |
| D | 1.000 | --- | 25.40 | --- | |

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