



ELECTRONICS, INC.
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UF4001 thru UF4007 Fast Rectifiers DO-41 Type Package

Features:

- Low Forward Voltage Drop
- High Surge Current Capability
- High Reliability
- High Current Capability
- Super Fast Switching Speed

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum Repetitive Reverse Voltage, V_{RRM}

UF4001	50V
UF4002	100V
UF4003	200V
UF4004	400V
UF4005	600V
UF4006	800V
UF4007	1000V

Maximum Average Forward Rectified Current ($T_A = +75^\circ\text{C}$, .375" Lead Length), $I_{F(AV)}$ 1.0A

Non-Repetitive Peak Forward Surge Current (8.3ms single half wave), I_{FSM} 30A

Power Dissipation, P_D 2.08W

Forward Voltage ($I_F = 1\text{A}$), V_F

UF4001, UF4002, UF4003, UF4004	1.0V
UF4005, UF4006, UF4007	1.7V

Reverse Recovery Time ($I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$), t_{rr}

UF4001, UF4002, UF4003, UF4004	50ns
UF4005, UF4006, UF4007	75ns

Reverse Current (at Rated V_R), I_R

$T_A = +25^\circ\text{C}$	10 μA
$T_A = +100^\circ\text{C}$	50 μA

Total Capacitance ($V_R = 4\text{V}$, $f = 1\text{MHz}$), C_T 17pF

Operating Temperature Range, T_{opr} -65° to $+150^\circ\text{C}$

Storage Temperature Range, T_{stg} -65° to $+150^\circ\text{C}$

Thermal Resistance, Junction-to-Ambient, R_{thJA} 60°C/W

Thermal Resistance, Junction-to-Lead, R_{thJL} 30°C/W

