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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 ( $I_F = 1A$ ),  $V_F$

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

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

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

Reverse Current (at Rated  $V_R$ ),  $I_R$

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

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

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

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

Thermal Resistance, Junction-to-Ambient,  $R_{thJA}$  .....  $60^\circ\text{C/W}$

Thermal Resistance, Junction-to-Lead,  $R_{thJL}$  .....  $30^\circ\text{C/W}$

