UF4001 THRU UF4007

ULTRAFAST RECOVERY RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.0 AMPERE

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FEATURES

- · Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- · Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- · Ultrafast recovery time for high efficiency
- · Excellent high temperature switching
- · Soft recovery characteristics

MECHANICAL DATA

Case: Molded plastic, DO-41

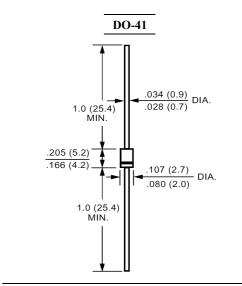
Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.012ounce, 0.33gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A =55	I _(AV)	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I_{FSM}	30							Amp
superimposed on rated load (JEDEC method) Maximum Forward Voltage at 1.0A DC and 25	V_{F}	1.0 1.7						Volts	
Maximum Reverse Current at T_A =25 at Rated DC Blocking Voltage T_A =100	I_R	5.0 500						uAmp	
Typical Junction Capacitance (Note 1)	C_{J}	17							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60							/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}	50 75						nS	
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.
- 3- Reverse Recovery Test Conditions : $I_F \!\!=\! .5A$, $I_R \!\!=\! 1A$, $I_{RR} \!\!=\! .25A$.



RATINGS AND CHARACTERISTIC CURVES

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