

UF4001 thru UF4007

Glass Passivated High Efficient Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 1.0 Ampere

Features

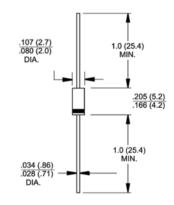
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- ◆ Ultrafast recovery time for high efficiency
- ◆ Excellent high temperature switching
- ◆ Soft recovery characteristics
- ◆ Glass passivated junction
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: JEDEC DO-204AL(DO-41) molded plastic body over passivated chip
- ◆ Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any
- ♦ Weight: 0.012 ounce, 0.34 gram



DO-204AL (DO-41)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

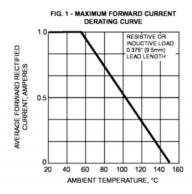
Parameter	Symbols	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A =55°C	I _{F(AV)}	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0A (Note 2)	V _F	1.0				1.7			Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10.0 50							uA
Maximum reverse recovery time I_F =0.5A, I_R =1.0A, I_R =0.25A	t _{rr}	50 75							nS
Typical junction capacitance at 4.0V, 1MHz	C _J	17							pF
Typical thermal resistance (Note 1)	$R_{_{\theta JA}} R_{_{\theta JL}}$	60 15							°C/W
Operating junction temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

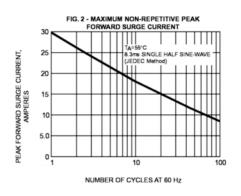
lotes: 1. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length

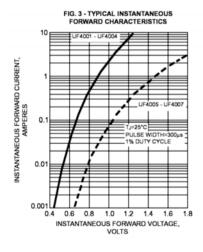
2. Pulse test: 300us pulse width, 1% duty cycle

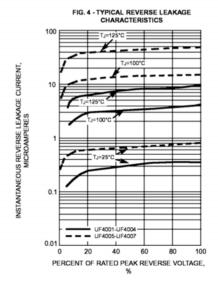
RATINGS AND CHARACTERISTIC CURVES

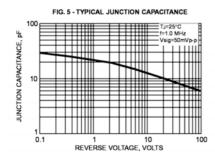
(T_A = 25°C unless otherwise noted)











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