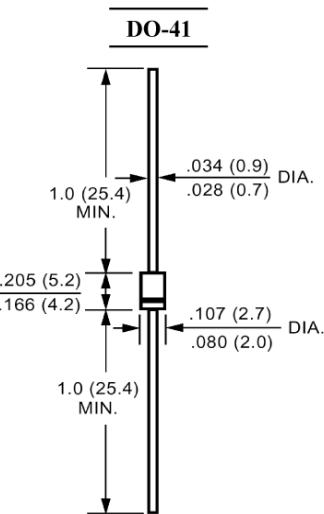


**FEATURES**

- 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°C 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
<b>Maximum Recurrent Peak Reverse Voltage</b>	<b>V<sub>RRM</sub></b>	50	100	200	400	600	800	1000	<b>Volts</b>
<b>Maximum RMS Voltage</b>	<b>V<sub>RMS</sub></b>	35	70	140	280	420	560	700	<b>Volts</b>
<b>Maximum DC Blocking Voltage</b>	<b>V<sub>DC</sub></b>	50	100	200	400	600	800	1000	<b>Volts</b>
<b>Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T<sub>A</sub>=55°C</b>	<b>I<sub>(AV)</sub></b>				1.0				<b>Amp</b>
<b>Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)</b>	<b>I<sub>FSM</sub></b>				30				<b>Amp</b>
<b>Maximum Forward Voltage at 1.0A DC and 25°C</b>	<b>V<sub>F</sub></b>		1.0			1.7			<b>Volts</b>
<b>Maximum Reverse Current at T<sub>A</sub>=25°C at Rated DC Blocking Voltage T<sub>A</sub>=100°C</b>	<b>I<sub>R</sub></b>			5.0					<b>uAmp</b>
				500					
<b>Typical Junction Capacitance (Note 1)</b>	<b>C<sub>J</sub></b>			17					<b>pF</b>
<b>Typical Thermal Resistance (Note 2)</b>	<b>R<sub>θJA</sub></b>			60					<b>°C/W</b>
<b>Maximum Reverse Recovery Time (Note 3)</b>	<b>T<sub>RR</sub></b>		50			75			<b>nS</b>
<b>Operating and Storage Temperature Range</b>	<b>T<sub>J</sub>, T<sub>Stg</sub></b>			-55 to +125					<b>°C</b>

**NOTES:**

1- Measured at 1 MHz 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<sub>F</sub>=.5A, I<sub>R</sub>=1A, I<sub>RR</sub>=.25A.



## RATINGS AND CHARACTERISTIC CURVES

