

# UF4001 THRU UF4007



**ULTRAFAST EFFICIENT  
PLASTIC SILICON RECTIFIER**  
VOLTAGE : 50 TO 1000V      CURRENT : 1.0A

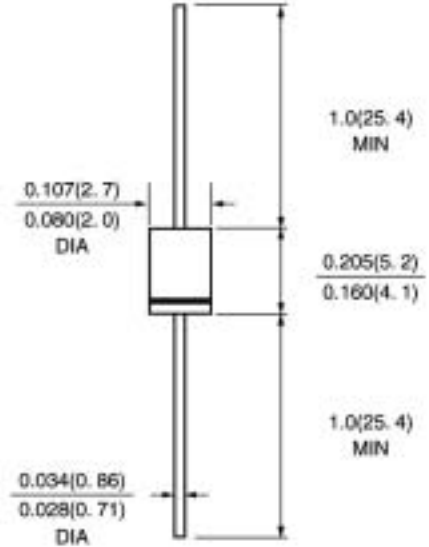
## FEATURE

Low power loss  
High surge capability  
Glass passivated chip junction  
Ultra-fast recovery time for high efficiency  
High temperature soldering guaranteed  
250 /10sec/0.375 lead length at 5 lbs tension

## MECHANICAL DATA

Terminal : Plated axial leads solderable per MIL-STD 202E, method 208C  
Case : Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity : color band denotes cathode  
Mounting position : any

## DO -41\DO-204AL



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated)

	SYMBOL	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 lead length at Ta =55	I <sub>f(av)</sub>	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30.0							A
Maximum Forward Voltage at Forward current 1A Peak	V <sub>f</sub>	1.0			1.7			V	
Maximum DC Reverse Current Ta =25 at rated DC blocking voltage Ta =125	I <sub>r</sub>	10.0			100.0			μ A μ A	
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	50			75			nS	
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	17.0							pF
Typical Thermal Resistance (Note 3)	R(ja)	60.0							/W
Storage and Operating Junction Temperature	T <sub>stg</sub> ,T <sub>j</sub>	-55 to +150							

Note :

- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8 lead length, P.C. Board Mounted

