

UF4001E THRU UF4007E

ULTRAFAST EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 1.0A

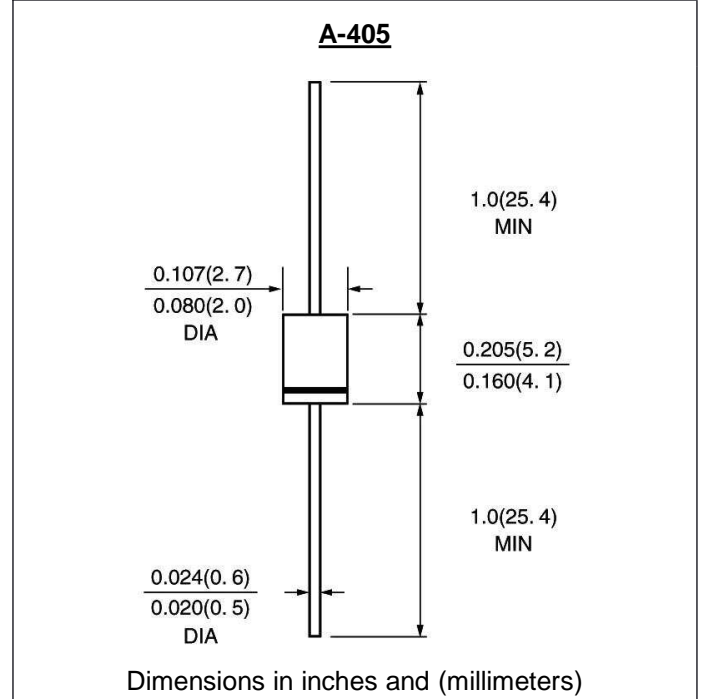


FEATURE

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250°C/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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UF40 01E	UF40 02E	UF40 03E	UF40 04E	UF40 05E	UF40 06E	UF40 07E	units	
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V	
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I _{f(av)}	1.0							A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30.0							A	
Maximum Forward Voltage at rated Forward Current and 25°C	V _f	1.0			1.7				V	
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0				100.0				μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50				75				75
Typical Junction Capacitance (Note 2)	C _j	17.0							pF	
Typical Thermal Resistance (Note 3)	R(ja)	60.0							°C /W	
Storage and Operating Temperature Range	T _{stg} , T _j	-55 to +150							°C	

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0V_{dc}
- Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES UF4001E THRU UF4007E

