

UF4001 THRU UF4007

ULTRAFAST RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 1.0A

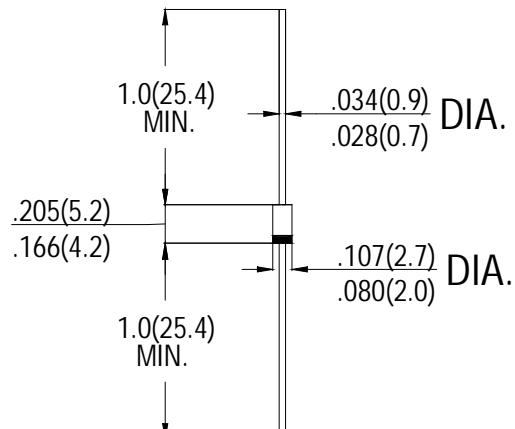
FEATURES

- Low power loss, high efficiency
- Low leakage
- Low forward voltage
- High current capability
- High speed switching
- High surge capability
- High reliability

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.33 grams

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL 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%

	SYMBOL	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	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 at T _A =50°C	I_o					1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}					30			A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F			1.0			1.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C	I_R					5.0			µA
Maximum Full Load Reverse Current Full Cycle Average,.375"(9.5mm) lead length at T _L =75°C						100			
Maximum Reverse Recovery Time (Note 1)	t_{rr}				50				nS
Typical Junction Capacitance (Note 2)	C_J		15			12			pF

Notes: 1.Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0 volts