



ULTRA FAST RECTIFIER

UF4001 THRU UF4007	VOLTAGE RANGE	50 to 1000 Volts
	CURRENT	1.0Ampere

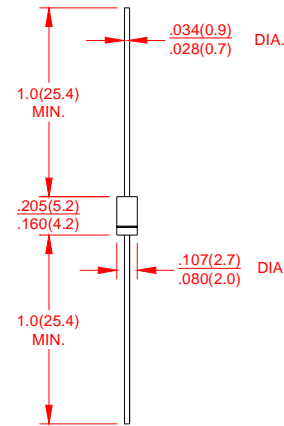
DO-41

FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375”(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012ounce, 0.33 grams



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	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	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	850	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 $T_A=55^{\circ}C$	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	30							Amps
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.0				1.7			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$	10							μA
	$T_A=125^{\circ}C$	50							
Maximum Reverse Recovery Time $T_{J}=25^{\circ}C$ (NOTE 1)	t_{rr}	50				75			ns
Typical Thermal Resistance (NOTE 2)	C_J	15							PF
Typical Thermal Resistance(NOTE 3)	$R_{\theta JA}$	60							$^{\circ}C/W$
Operating Junction Temperature Range	T_J, T_{STG}	(-55 to +150)							$^{\circ}C$

Notes:

- 1 Test Condition:IF=0.5A,IR=1.0A,IRR=0.25A
2. Measured at 1.0 MHz and applied reverse of 4.0 volts.
- 3 Thermal resistance from junction to ambient with .375”(9.5mm)lead length, P.C.B. mounted. .

RATING AND CHARACTERISTIC CURVES UF4001 THRU UF4007

