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## **UF4001 THRU UF4007**

# **High Efficiency Rectifier**

#### **Features**

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Ultra fast switching for high efficiency Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 260 C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **Mechanical Data**

Case: JEDEC DO-41 molded plastic body

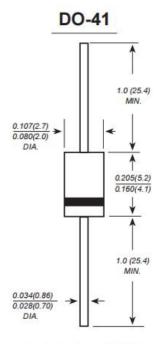
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 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 current derate by 20%.

	SYMBOLS	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vpc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=55℃	l(AV)	1.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0						Amps	
Maximum instantaneous forward voltage at 1.0A	VF	1.0					1.70		Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	5.0 50.0					μА		
Maximum reverse recovery time (NOTE 1)	trr	50			75			ns	
Typical junction capacitance (NOTE 2)	Cı	15.0						pF	
Typical thermal resistance (NOTE 3)	Reja	50.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150						°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

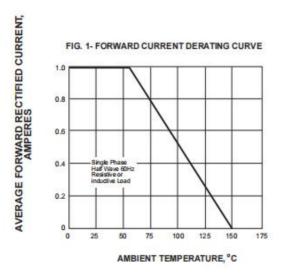
<sup>3.</sup> Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

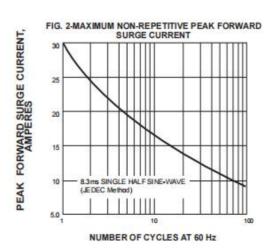
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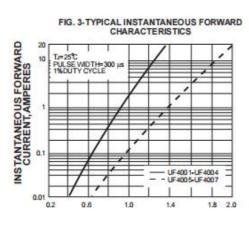
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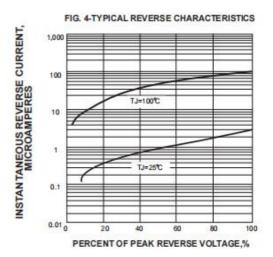
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## **RATINGS AND CHARACTERISTIC CURVES UF4001 THRU UF4007**

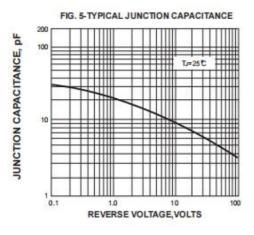


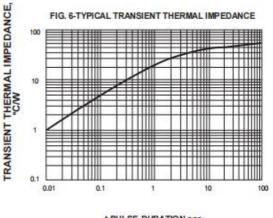












t, PULSE DURATION, sec.