## **Ultra Fast Rectifiers**

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### RoHS Compliant



#### Features

- Low Cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability.
- The plastic material carries UL recognition 94V-0

### Specifications

Reverse Voltage	: 50 to 1,000 Volts
Forward Current	: 1 Amperes

### **Mechanical Data**

Case	: JEDEC DO-41 moulded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.012 ounces, 0.34 grams
Mounting Position	: Any

### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Characteristics	Sym- bol	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	UF4008	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	
Max. RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Max. DC Blocking Voltage	V DC	50	100	200	300	400	600	800	1000	
Max. Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @ Ta=50°C	I(AV)		1							А
Bakelite Peak Forward Surge Current 8.3ms Single Half Sine- Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30						A		
Peak Forward Voltage at 2A DC (Note 1)	Vf	1 1.3 1.7							V	
Max. DC Reverse Current @ TJ=25°C at Rated DC Bolcking Voltage @ TJ=100°C	lr	5 100						μA		

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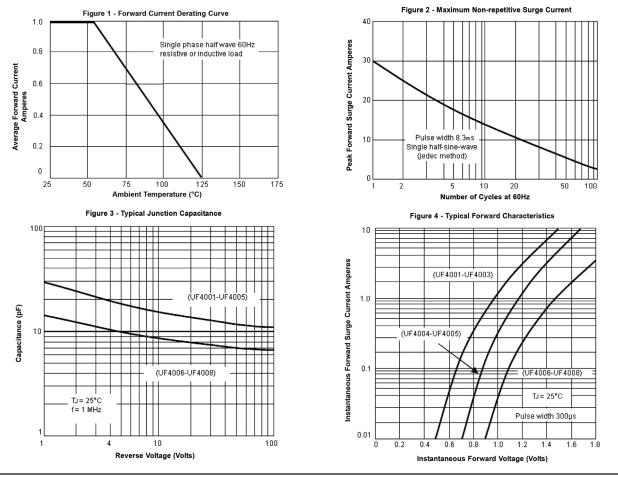
### Ultra Fast Rectifiers

Characteristics	Sym- bol	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	UF4008	Unit
Max. Reverse Recovery Time (Note 1)	Trr		50					75		
Typical Junction Capacitance (Note 1)	Сл	20					10			pF
Typical Thermal Resistance (Note 2)	Reja		25						°C/W	
Operating Temperature Range	ТJ	-55 to +125					°C			
Storage Temperature Range	Tstg	-55 to +150					°C			

#### Notes:

- 1. Measured with IF=0.5A, CIR=1A, CIRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4V DC.
- 3. Thermal resistance junction to ambient.

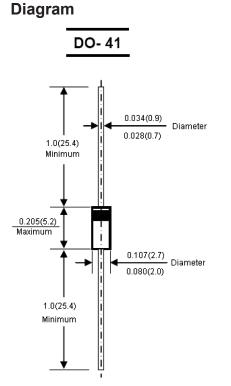
### **Rating and Characteristic Curves**





### **Ultra Fast Rectifiers**

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Dimensions : Inches (Millimetres)

#### Part Number Table

Description	Part Number		
	UF4001		
Ultra Fast Rectifiers	UF4002		
	UF4003		
	UF4004		
	UF4005		
	UF4006		
	UF4007		
	UF4008		

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