Ultra Fast Recitifiers

multicomp **PRO**

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 VoltsForward Current: 3 Amperes

Mechanical Data

Case	: JEDEC DO-27 moulded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.04 ounces, 1.1 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	UF3001	UF3002	UF3003	UF3004	UF3005	UF3006	UF3007	UF3008	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)		3							A
Bakelite Peak Forward Surge Current 8.3ms Single Half Sine- Wave Super Imposed on Rated Load(JEDEC Method)	IFSM		125						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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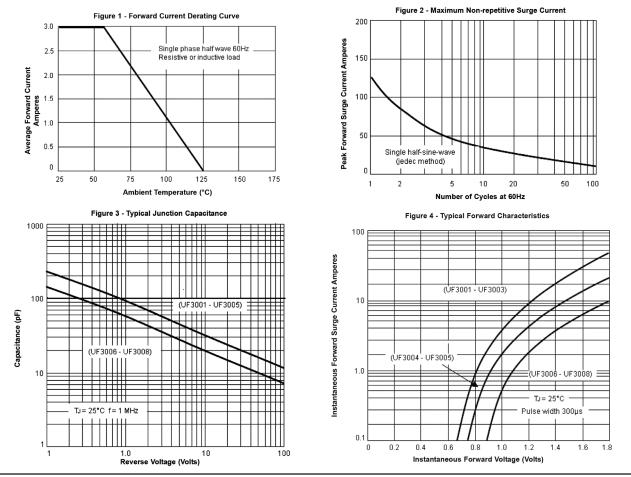
Ultra Fast Recitifiers

Characteristics	Sym- bol	UF3001	UF3002	UF3003	UF3004	UF3005	UF3006	UF3007	UF3008	Unit
Max. Reverse Recovery Time (Note 1)	Trr		50 75					75		nS
Typical Junction Capacitance (Note 1)	Сյ	50					30			pF
Typical Thermal Resistance (Note 2)	Reja		20						°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



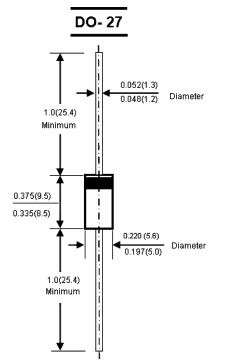
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Diagram



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
	UF3001
	UF3002
	UF3003
Ultra Fast Recitifiers	UF3004
Ultra Fast Reclimers	UF3005
	UF3006
	UF3007
	UF3008

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