

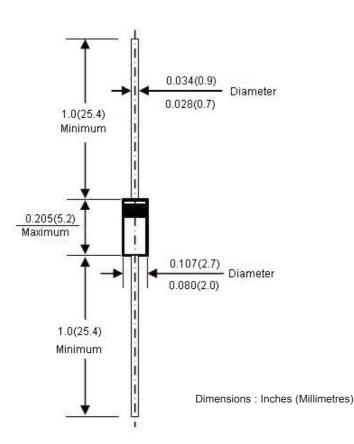
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Reverse Voltage - 50 to 1,000 Volts and Forward Current - 1.0 Amperes





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

Mechanical Data:

Case : JEDEC DO-27 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%

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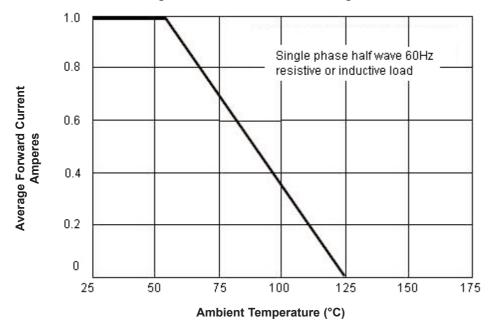
Characteristics	Symbol	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	UF4008	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _A =50°C	I _(AV)	1.0						Α		
BakelitePeak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30					A			
Peak Forward Voltage at 2.0A DC (Note 1)	V _F	1.0 1.3 1.7					V			
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =100°C	lR	5.0 100					μА			
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50 75						nS		
Typical Junction Capacitance (Note1)	СЛ	20 10					pF			
Typical Thermal Resistance (Note2)	R _{eJA}	25					°C/W			
Operating Temperature Range	TJ	-55 to +125					°C			
Storage Temperature Range	T _{STG}	-55 to +150						°C		

Notes:

- 1. Measured with I_F =0.5A, CI_R =1A, CI_{RR} =0.25A
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient.

Rating and Characterstic Curves.

Figure 1 - Forward Current Derating Curve

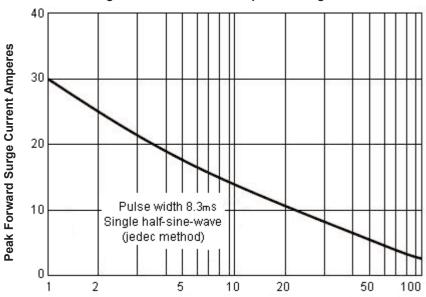


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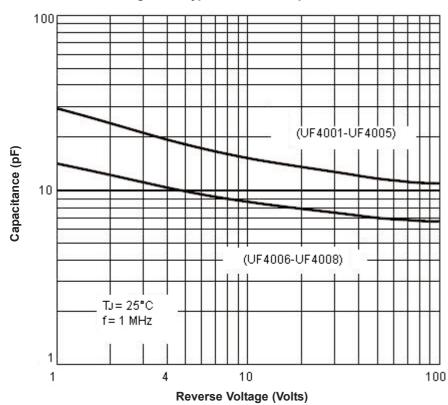


Figure 2 - Maximum Non-repetitive Surge Current



Number of Cycles at 60Hz

Figure 3 - Typical Junction Capacitance







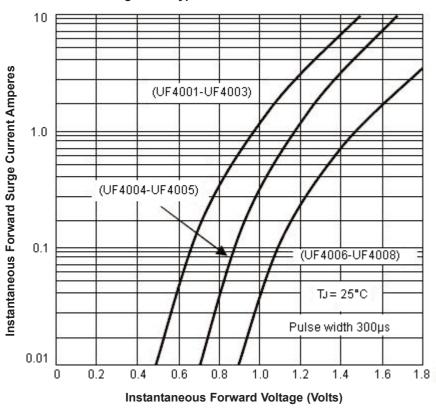


Figure 4 - Typical Forward Characteristics

Part Number Table

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

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