

UF4001G THRU UF4007G

1.0 AMP. Glass Ultra Fast Rectifiers

Features

- · Low loss.
- · High current capability
- · High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

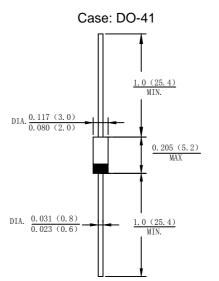
For capacitive load derate current by 20%

Type Number	SYMBOL	UF 4001G	UF 4002G	UF 4003G	UF 4004G	UF 4005G	UF 4006G	UF 4007G	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =100 °C	IF(AV)	1.0						А	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	30							A
I ² t Rating for Fusing (t < 8.3ms)	l²t	3.735						A ² s	
Forward Voltage @IF=1.0A	Vfm	1.0 1.3 1.7					V		
Peak Reverse Current @T _A =25 °C			2.5						
At Rated DC Blocking Voltage @T _A =125°C	l _R 100							uA	
Maximum Reverse Recovery Time (Note1)	Trr	50 75						nS	
Typical Junction Capacitance (Note 2)	CJ	12						pF	
Typical Thermal Resistance Junction to Ambient(Note 3)	Røja Røjl Røjc	55 16 12						°C/W	
Operating Temperature Range	TJ	-55 to+ 150						°C	
Storage Temperature Range	Тѕтс	-55 to+ 150						°C	

Note: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Leads maintained at ambient temperature at a distance of 9.5mm from the case



Dimensions in inches and (millimeters)



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FIG. 1 - FORWARD CURRENT DERATING CURVE

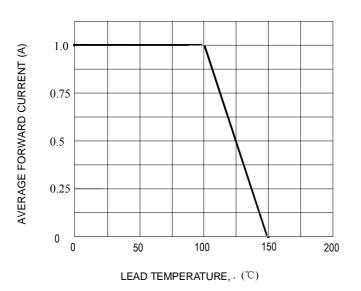
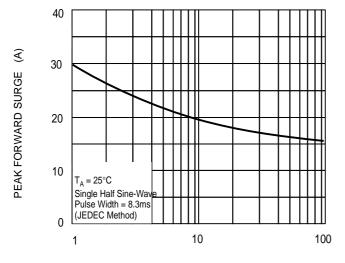
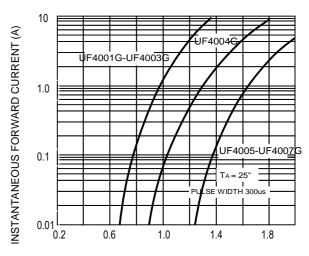


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT



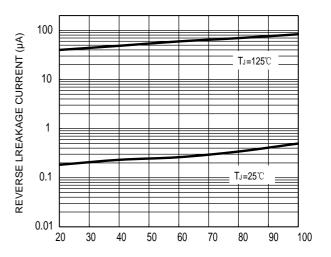
NUMBER OF CYCLES AT 60Hz

FIG.2 – TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 4 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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