



UF4001GU THRU UF4007GU

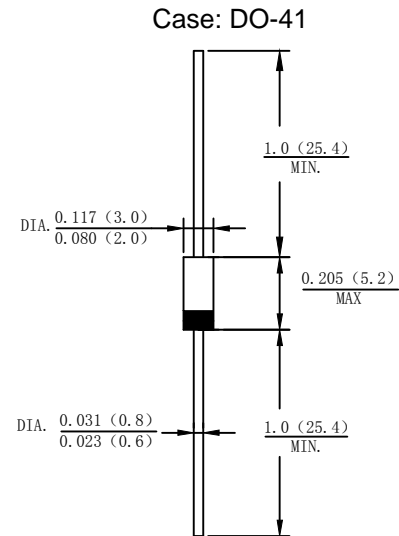
1.0 AMP. Glass Ultra Fast Rectifiers

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 dented cathode end
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

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 4001GU	UF 4002GU	UF 4003GU	UF 4004GU	UF 4005GU	UF 4006GU	UF 4007GU	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T _L =100 °C	I _{F(AV)}	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	35							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	5.08							A ² s
Forward Voltage @IF=1.0A	V _{FM}	1.0			1.3	1.7			V
Peak Reverse Current @T _J =25 °C	I _R	5.0							uA
At Rated DC Blocking Voltage @T _J =125 °C		100							
Maximum Reverse Recovery Time (Note1)	T _{RR}	50				75			nS
Typical Junction Capacitance (Note 2)	C _J	9							pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	75							°C/W
Operating Temperature Range	T _J	-55 to+ 150							°C
Storage Temperature Range	T _{STG}	-55 to+ 150							°C

Note: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$.

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



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Fig. 1 Forward Current Derating Curve

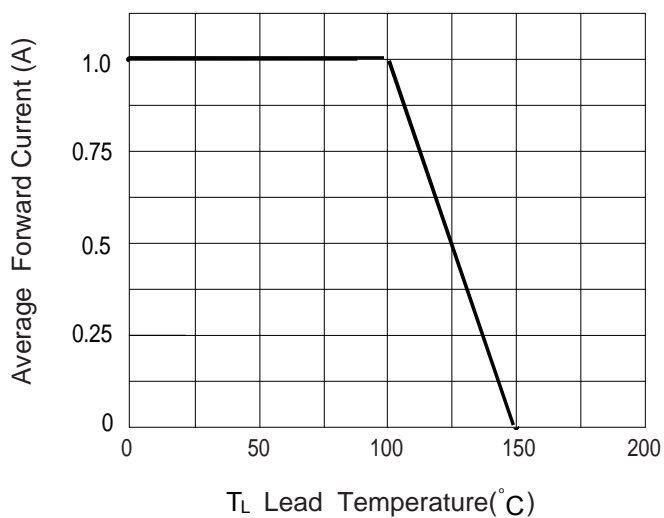


Fig. 2 Typ. Forward Characteristics

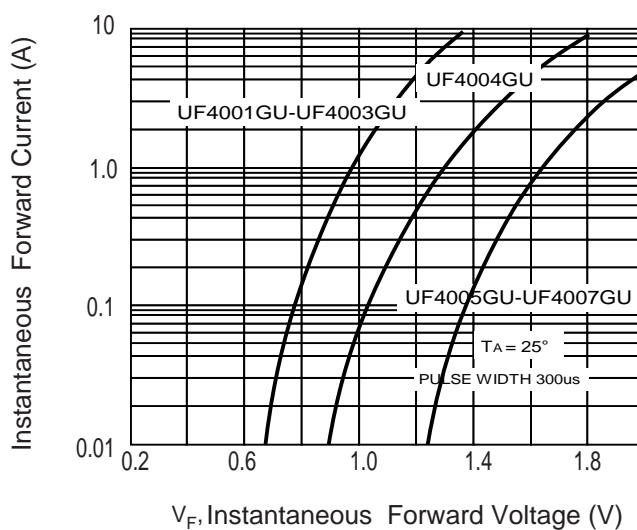


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

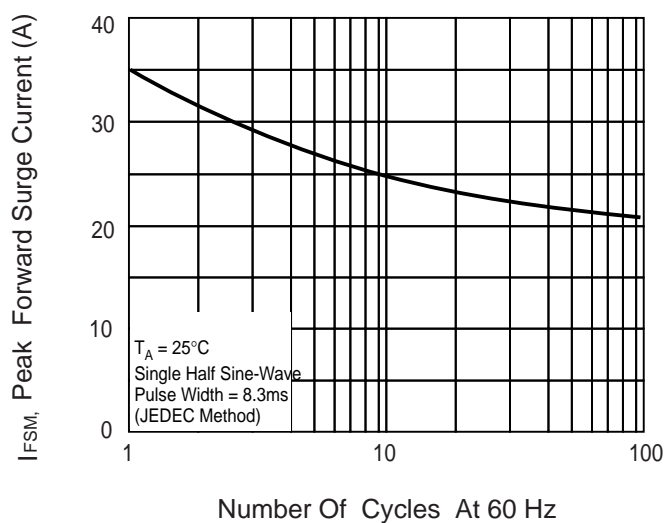
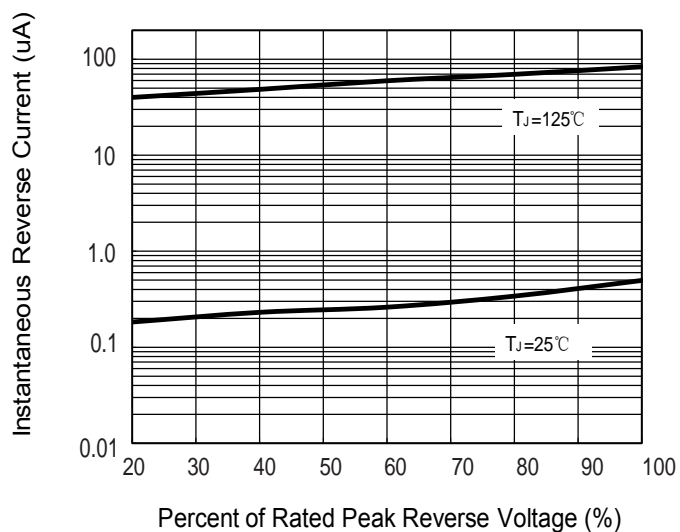


Fig. 4 Typical Reverse Characteristics (per element)





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