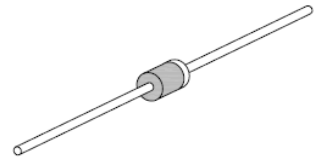


1.0A Glass Passivated Ultra Fast Recovery Rectifier

Features

- Glass passivated chip junction
- Low forward voltage drop, high current capability
- Low leakage, high forward surge capability
- High temperature soldering guaranteed: 250°C, 0.375" (9.5mm), lead length for 10 seconds, 5 lbs. (2.3kg) tension
- RoHS Compliance



DO-41



Mechanical Data

Case:	JEDEC DO-41 molded plastic over passivated chip
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.012 ounce, 0.34 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Description	UF 4001G	UF 4002G	UF 4003G	UF 4004G	UF 4005G	UF 4006G	UF 4007G	Unit	Conditions
	Marking Code	UF4001G	UF4002G	UF4003G	UF4004G	UF4005G	UF4006G	UF4007G		
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Max. Average Forward Rectified Current	1.0							A	0.375" (9.5mm) lead length at $T_A=55^\circ\text{C}$
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Max. Instantaneous Forward Voltage	1.0				1.7			V	$I_{F(AV)}=1.0\text{A}$, Note 1
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage	10							μA	$T_A=25^\circ\text{C}$
		50								$T_A=100^\circ\text{C}$

1.0A Glass Passivated Ultra Fast Recovery Rectifier

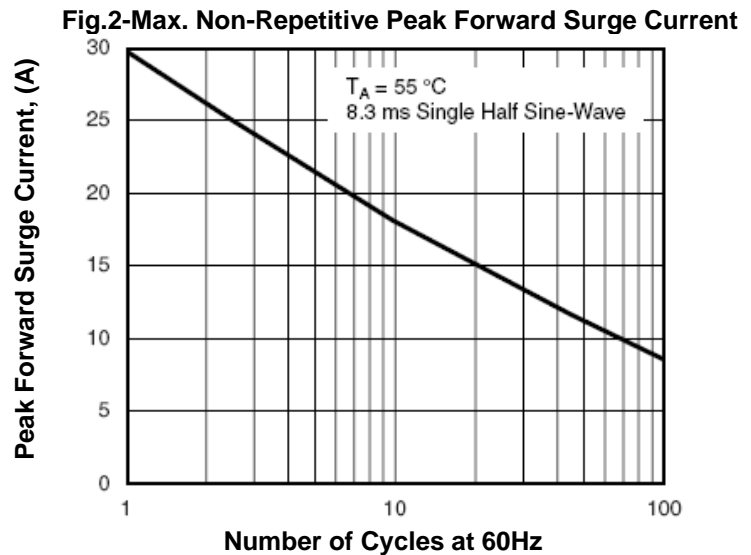
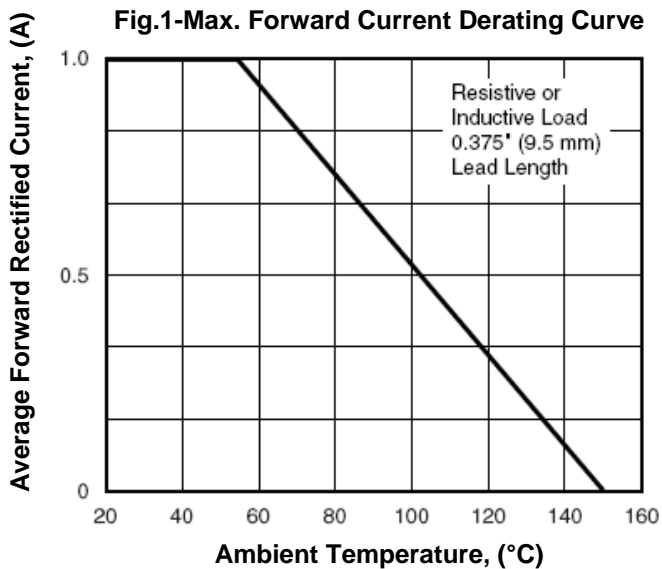
UF4001G - UF4007G

Symbol	Description	UF 4001G	UF 4002G	UF 4003G	UF 4004G	UF 4005G	UF 4006G	UF 4007G	Unit	Conditions	
T_{rr}	Max. Reverse Recovery Time	50				75			nS	IF=0.5A, IR=1.0A, Irr=0.25A	
C_J	Typical Junction Capacitance	17								pF	VR= 4V, f=1MHz
R_{thJA}	Typical Thermal Resistance	60								°C / W	Note 2
R_{thJL}		15									
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150								°C	

Note: 1. Pulse test: 300µS pulse width, 1% duty cycle.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length.

Typical Characteristics Curves



1.0A Glass Passivated Ultra Fast Recovery Rectifier

UF4001G - UF4007G

Fig.3-Typical Instantaneous Forward Characteristics

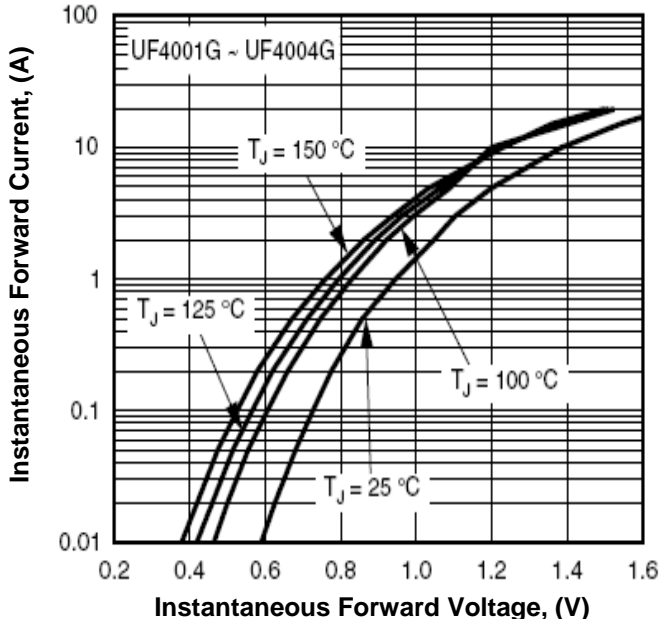


Fig.4-Typical Reverse Characteristics

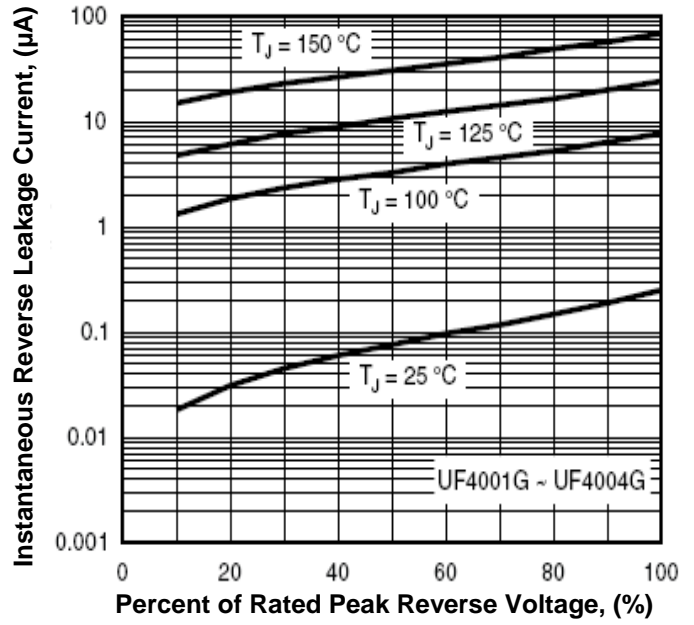


Fig.5-Typical Instantaneous Forward Characteristics

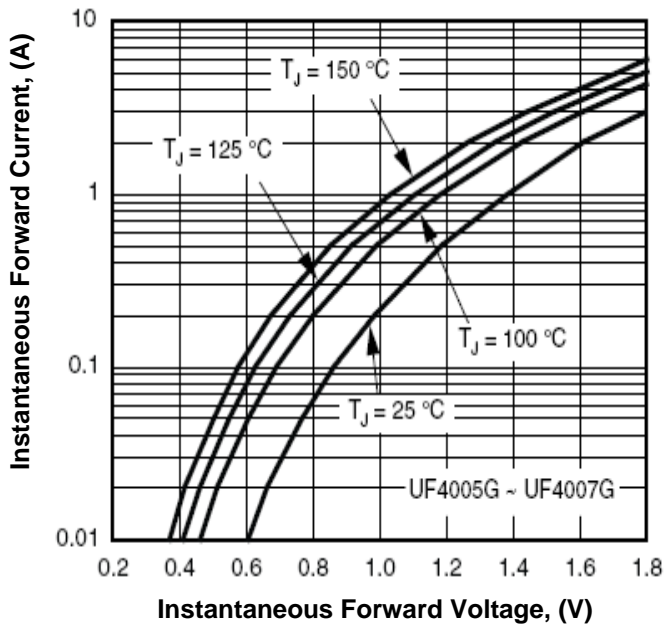
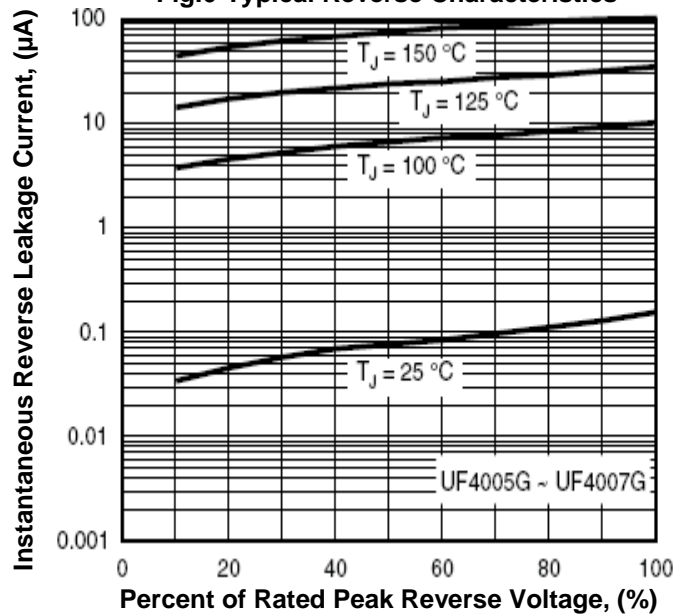


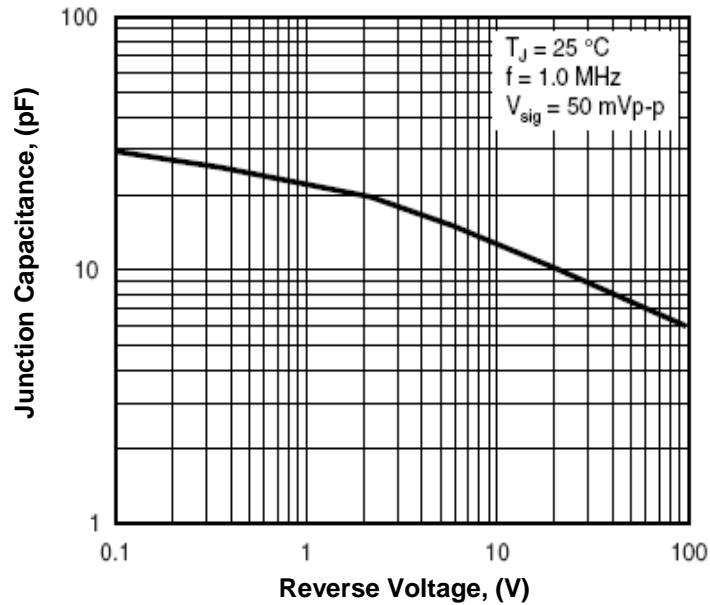
Fig.6-Typical Reverse Characteristics



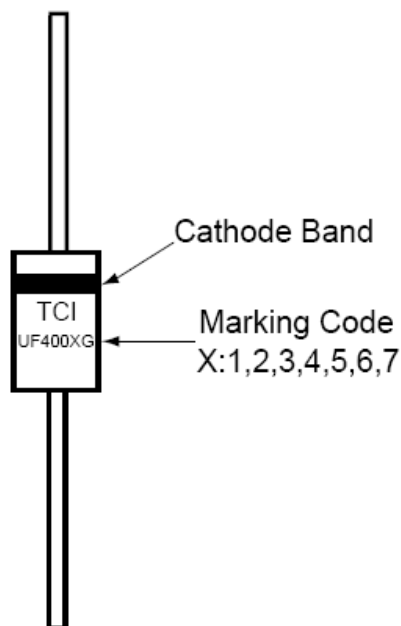
1.0A Glass Passivated Ultra Fast Recovery Rectifier

UF4001G - UF4007G

Fig.7-Typical Junction Capacitance



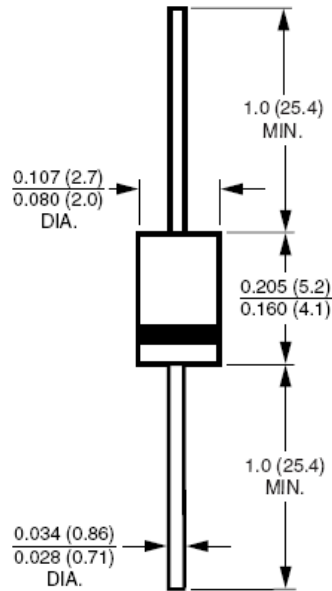
Marking Information:



1.0A Glass Passivated Ultra Fast Recovery Rectifier

UF4001G - UF4007G

Dimensions in inches (mm)



DO-41

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