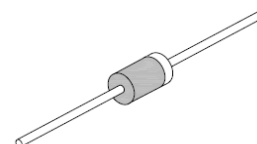


3.0A Glass Passivated Ultra Fast Recovery Rectifier

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-201AD



Mechanical Data

Case:	JEDEC DO-201AD molded plastic over passivated chip
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.04 ounce, 1.1 gram

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

Symbol	Description	UF 5400G	UF 5401G	UF 5402G	UF 5403G	UF 5404G	UF 5405G	UF 5406G	UF 5407G	UF 5408G	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	210	280	350	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V	
I_{F(AV)}	Max. Average Forward Rectified Current	3.0									A	0.375" (9.5mm) lead length at $T_A=55^\circ\text{C}$
I_{FSM}	Peak Forward Surge Current	150									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)} =3.0A, Note 1

3.0A Glass Passivated Ultra Fast Recovery Rectifier

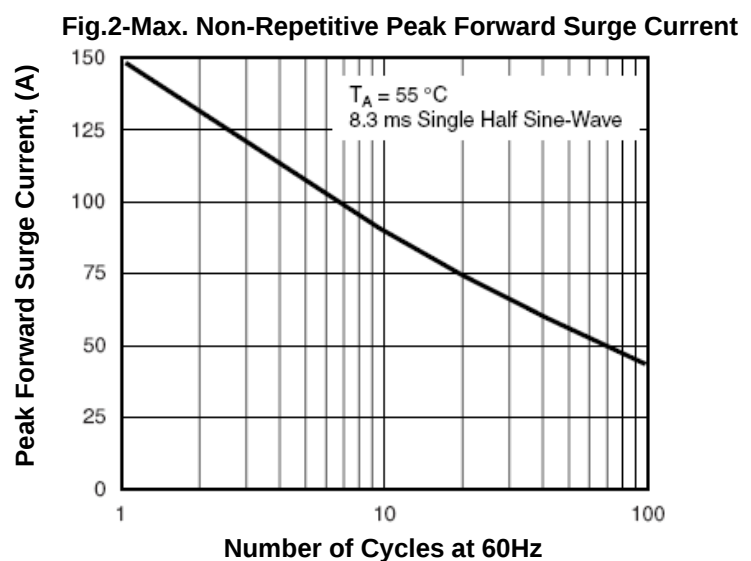
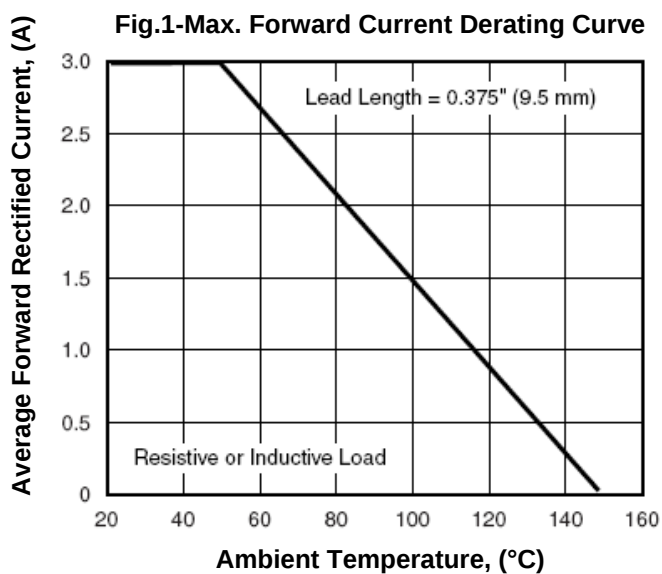
UF5400G - UF5408G

Symbol	Description	UF 5400G	UF 5401G	UF 5402G	UF 5403G	UF 5404G	UF 5405G	UF 5406G	UF 5407G	UF 5408G	Unit	Conditions
IR	Max. DC Reverse Current at Rated DC Blocking Voltage	10									μA	TA=25°C
		75					200					TA=100°C
Trr	Max. Reverse Recovery Time	50					75				nS	TJ=25°C, IF=0.5A, IR=1.0A, Irr=0.25A
CJ	Typical Junction Capacitance	45					36				pF	VR= 4V, f=1MHz
RthJA	Typical Thermal Resistance	20									°C / W	Note 2
RthJL		8.5										
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150									° C	

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

2. Thermal resistance from junction to lead and from junction to ambient with 0.375" (9.5mm) lead length, both leads attached to heatsink.

Typical Characteristics Curves



3.0A Glass Passivated Ultra Fast Recovery Rectifier

UF5400G - UF5408G

Fig.3-Typical Instantaneous Forward Characteristics

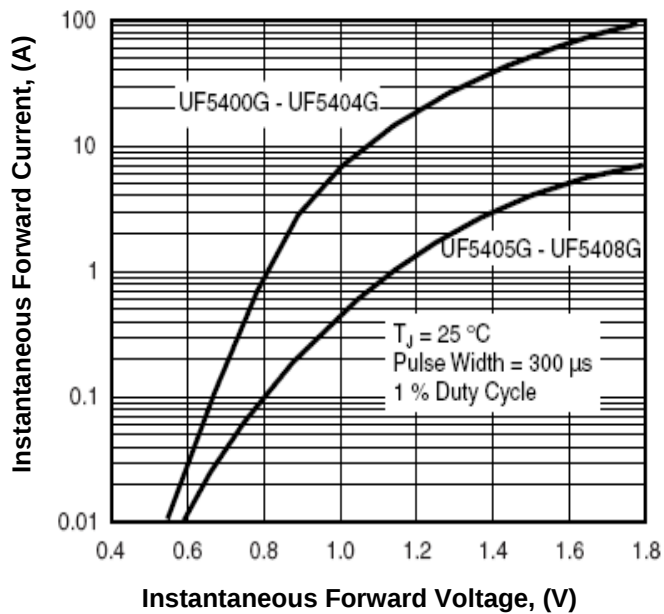


Fig.4-Typical Reverse Characteristics

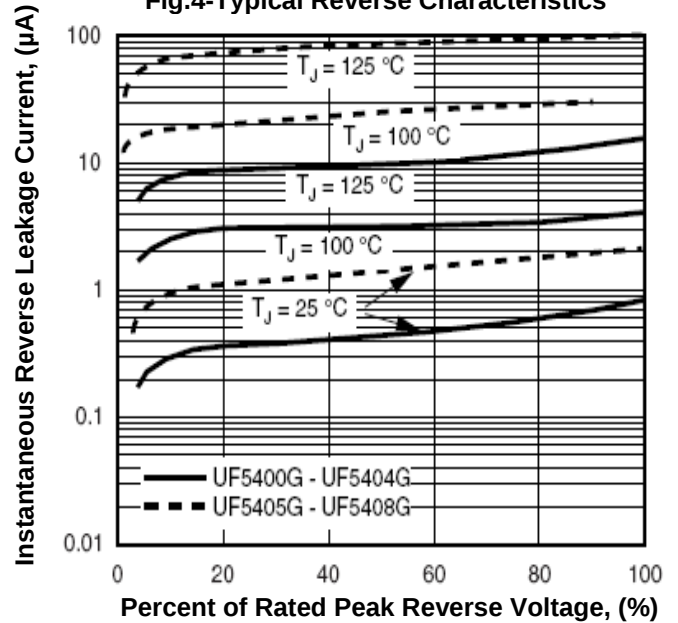
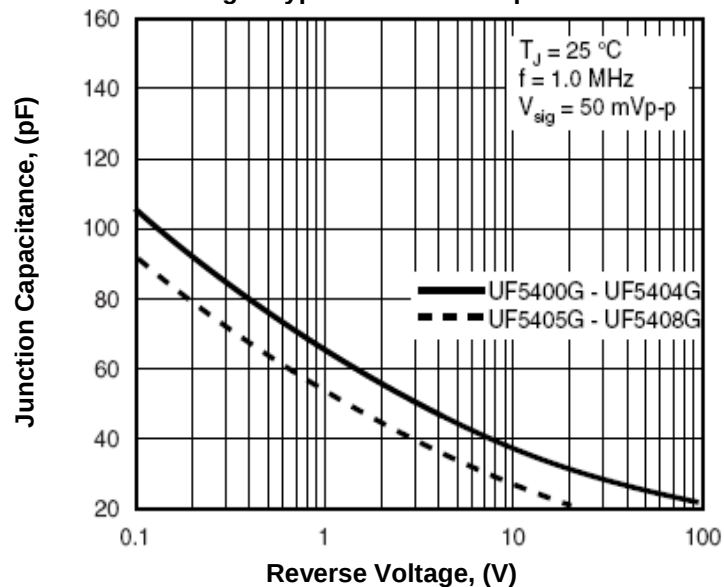


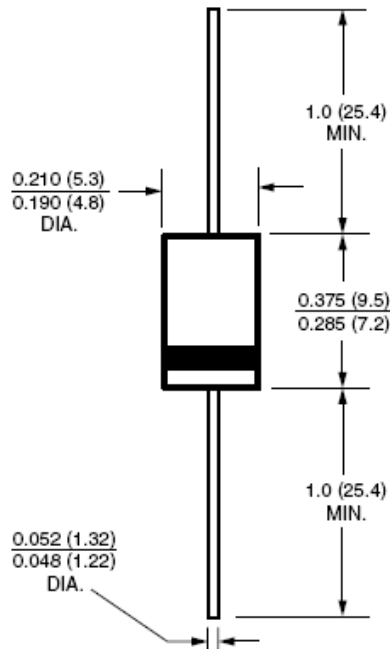
Fig.5-Typical Junction Capacitance



3.0A Glass Passivated Ultra Fast Recovery Rectifier

UF5400G - UF5408G

Dimensions in inches (mm)



DO-201AD

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