



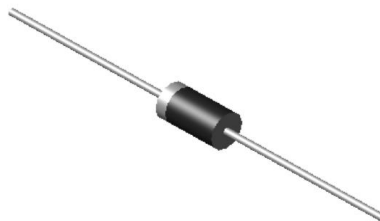
# UF5400G THRU UF5408G

## 3.0 AMP.Glass Ultra Fast Rectifiers

### 1.Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

DO-201AD



### 2.Mechanical Data

- Case:Molded Plastic,DO-201AD.
- 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

Cathode  Anode

### 3.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 5400G	UF 5401G	UF 5402G	UF 5404G	UF 5406G	UF 5407G	UF 5408G	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@T <sub>L</sub> =100℃	I <sub>F(AV)</sub>	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	125							A
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	64.84							A <sup>2</sup> s
Forward Voltage @IF=3.0A	V <sub>FM</sub>	1.0			1.3	1.7			V
Peak Reverse Current @T <sub>A</sub> =25 ℃	I <sub>R</sub>	5.0							uA
At Rated DC Blocking Voltage @T <sub>A</sub> =125 ℃		75			200				
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	45				36			pF
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	25							℃/W
Maximum Reverse Recovery Time(Note 2)	T <sub>rr</sub>	50				75			ns
Operating Temperature Range	T <sub>J</sub>	-55 to+150							℃
Storage Temperature Range	T <sub>STG</sub>	-55 to+150							

Note: 1.Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

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



### 4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

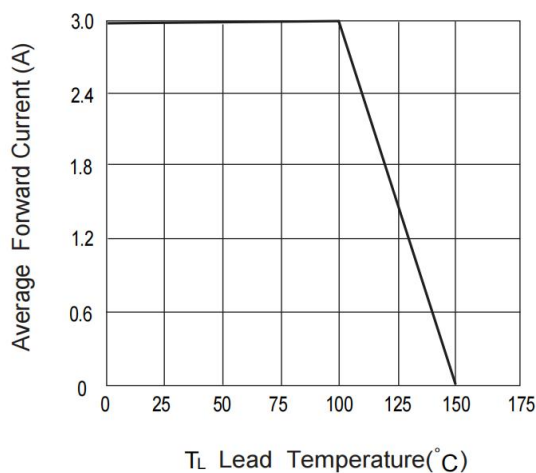


Fig. 2 Instantaneous Forward Characteristics

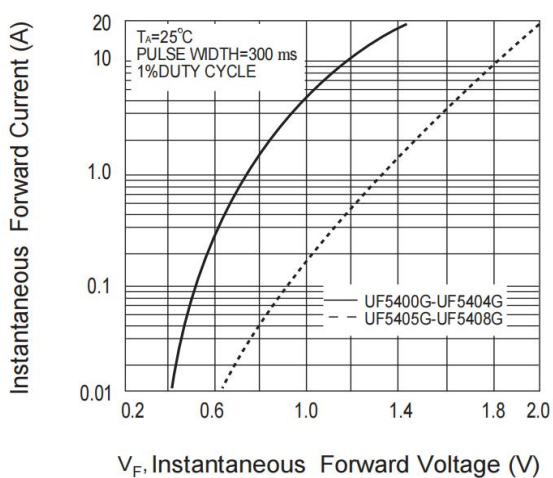


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

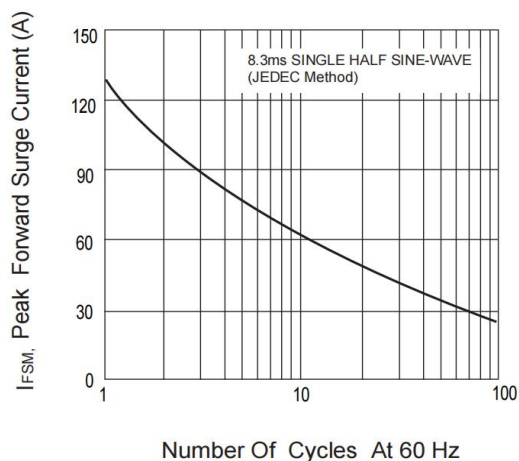
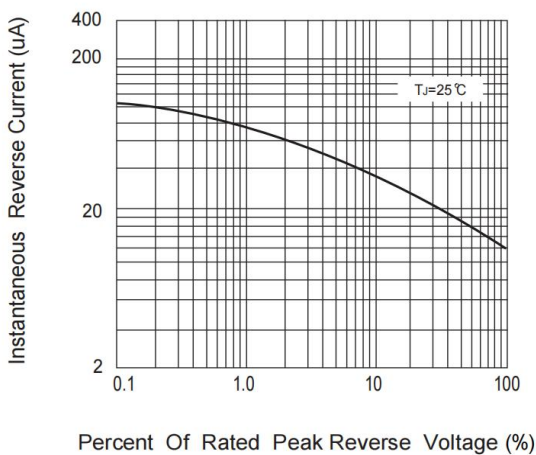


Fig. 4 Reverse Characteristics (per diode)

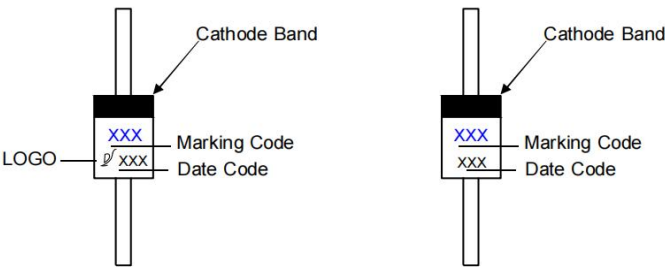




5. Dimensions

Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.945	-	24.0	-
B	0.335	0.374	8.5	9.5
C	0.197	0.220	5.0	5.6
D	0.043	0.051	1.1	1.3

6. Part Marking System



7. Package Information

Package	Packing
DO-201AD	1250 / Tape & Reel
DO-201AD	250 / Ammo & Box



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