

## **UF2A THRU UF2M**

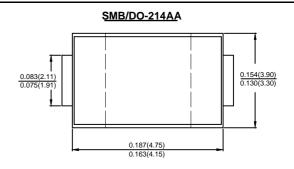
### 2.0AMP SURFACE MOUNT GLASS ULTRA FAST RECTIFIERS

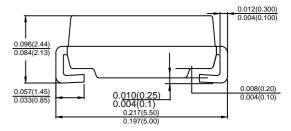
#### **Features**

- . Low cost
- · Ultra fast switching for high efficiency
- · High current capability
- Plastic Case Material has UL Flammability Classification Rating 94V- 0

#### **Mechanical Data**

- · Case: Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- · Mounting Position: Any
- · Making: Type Number





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	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	Unit
7.								1000	V
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800		V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =90°C	<b>İ</b> F(AV)	2.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	<b>I</b> FSM	60							Α
Forward Voltage @IF=2.0A	V <sub>FM</sub>	1.0 1.3 1.7					V		
Peak Reverse Current @T <sub>A</sub> =25 ℃	5.0								
At Rated DC Blocking Voltage @T <sub>A</sub> =125 ℃	I <sub>R</sub>	100							uA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	14.94						A <sup>2</sup> s	
Maximum Reverse Recovery Time (Note 1)	Trr	50 75						ns	
Typical Junction Capacitance (Note 2)	Сл	28						pF	
Typical Thermal Resistance Junction to Ambient(Note 3)	Re JA	20						°C/W	
Operating Temperature Range	TJ	-55 to+150							$^{\circ}$ C
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}\!\mathbb{C}$

Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. 8.0MM<sup>2</sup> (.013mm Thick) Land Areas.

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INSTANTANEOUS FORWARD CURRENT(A)

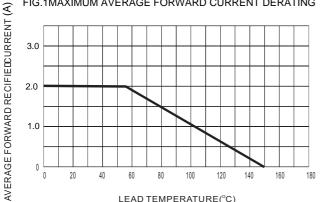
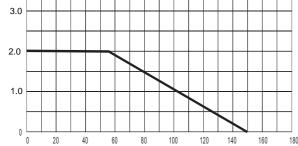
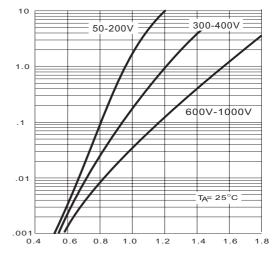


FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING



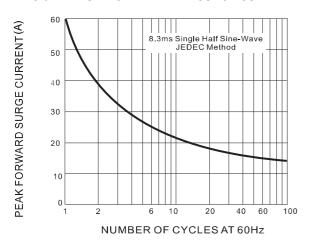
LEAD TEMPERATURE(°C)

#### FIG.2TYPICAL FORWARD CHARACTERISTICS

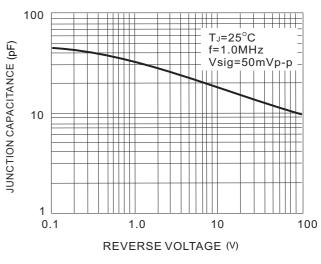


INSTANTANEOUS FORWARD VOLTAGE (V)

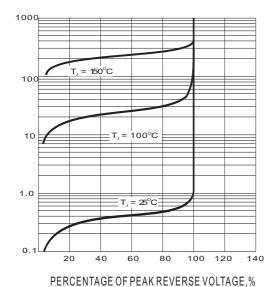
#### FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT



#### FIG.4TYPICAL JUNCTION CAPACITANCE

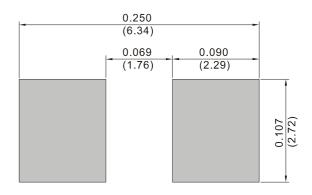


#### FIG.5TYPICAL REVERSE CHRACTERISTICS



INSTANTANEOUS REVERSE CURRENT (uA)

FIG.6 MOUNTING PAD LAYOUT





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