



# 1.DATA SHEET

## UF300G thru UF3010G

### GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIERS

**VOLTAGE** 50 to 1000 Volts **CURRENT** 3.0 Amperes

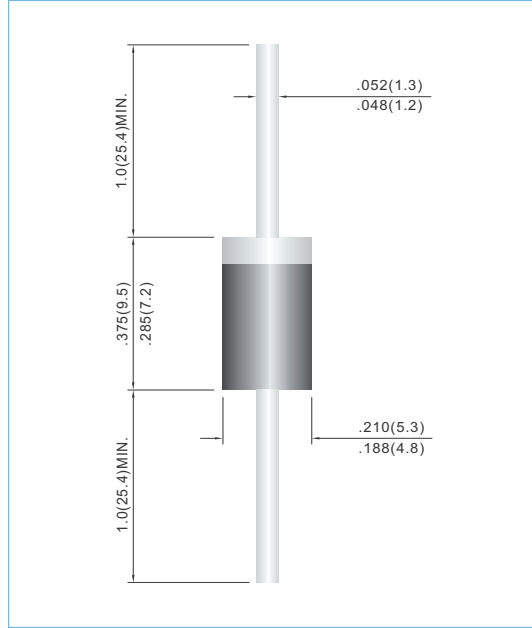
**DO-201AD** Unit: inch(mm)

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast switching for high efficiency.
- Pb free product : 99% Sn can meet RoHS environment substance directive request

#### MECHANICALDATA

Case: Molded plastic, DO-201AD  
 Terminals: Axial leads, solderable per MIL-STD-750,Method 2026  
 Polarity: Band denotes cathode  
 Mounting Position: Any  
 Weight: 0.045 ounce, 1.132 gram



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	UF300G	UF301G	UF302G	UF304G	UF306G	UF308G	UF3010G	UNITS
Maximum Recurrent 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 Current .375"(9.5mm) lead length at TA=55°C	I <sub>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>	150							A
Maximum Forward Voltage at 3.0A	V <sub>F</sub>	1.0			1.3	1.7			V
Maximum DC Reverse Current T <sub>J</sub> =25°C at Rated DC Blocking Voltage T <sub>J</sub> =100°C	I <sub>R</sub>					10.0			uA
						300			
Typical Junction capacitance (Note 1)	C <sub>J</sub>	75			50				pF
Typical Thermal Resistance(Note 2)	R <sub>θJA</sub>	60							°C / W
Maximum Reverse Recovery Time (Note 3)	T <sub>RR</sub>	50				100			ns
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 TO +150							°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375"(9.5mm) P.C.B. mounted.
3. Reverse Recovery Time I<sub>F</sub>=.5A ,I<sub>R</sub>=1A , I<sub>rr</sub>=.25A



**RATING AND CHARACTERISTIC CURVES**

