

**ULTRA FAST  
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts  
FORWARD CURRENT - 3.0 Amperes

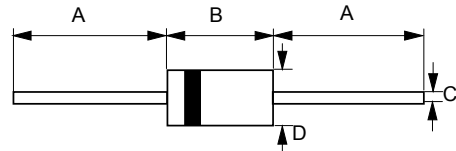
**FEATURES**

- Glass passivated chip
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- Plastic material has UL flammability classification 94V-0

**MECHANICAL DATA**

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

**DO-201AD**



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	UG3001	UG3002	UG3003	UG3004	UG3005	UG3006	UG3007	UNIT
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 Rectified Current @T <sub>C</sub> =120°C	I <sub>(AV)</sub>	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I <sub>FSM</sub>	125							A
Maximum forward Voltage at 3.0A DC	V <sub>F</sub>	1.0		1.3		1.70			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	5 100							uA
Maximum Reverse Recovery Time (Note 1)	T <sub>RR</sub>	50				75			ns
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	60				30			pF
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub> R <sub>θJC</sub> R <sub>θJL</sub>	60 15 10				°C/W			
Storage / Operating Temperature Range	T <sub>STG</sub> , T <sub>J</sub>	-55 to +150							°C

NOTES : 1. Test condition of T<sub>RR</sub>: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
3. Thermal Resistance Junction to Ambient, case and lead.

