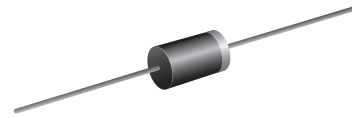
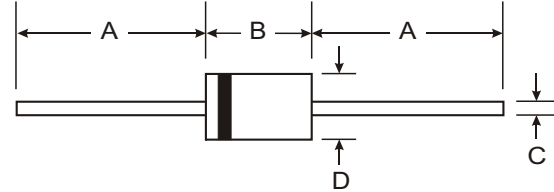


VOLTAGE RANGE: 50 - 200V
CURRENT: 3.0 A



Features

- Low power loss
- High surge capability
- Glass passivated chip junction
- Ultra-fast recovery time for high efficiency
- High temperature soldering guaranteed
- 250°C/10sec/0.375" lead length at 5 lbs tension



Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-201		
Dim	Min	Max
A	25.40	—
B	8.50	9.53
C	0.96	1.06
D	4.80	5.21
All Dimensions in mm		



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	UG3A	UG3B	UG3C	UG3D	Unit
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	150	200	V
Maximum RMS Voltage	V _{rms}	35	70	105	140	V
Maximum DC blocking Voltage	V _{dc}	50	100	150	200	V
Maximum Average Forward Rectified Current 3/8" lead length at T _a = 50°C	I _{f(av)}	3.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	125.0				A
Maximum Forward Voltage at Forward current 3.0A Peak	V _f	0.95				V
Maximum DC Reverse Current T _a = 25°C at rated DC blocking voltage T _a = 100°C	I _r	5.0 250.0				μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	20				nS
Typical Junction Capacitance (Note 2)	C _j	26				pF
Typical Thermal Resistance (Note 3)	R(ja)	25				°C/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +150				°C

Note :

1. Reverse Recovery Condition I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES UG3A THRU UG3D

Fig. 1 – Forward Current Derating Curves

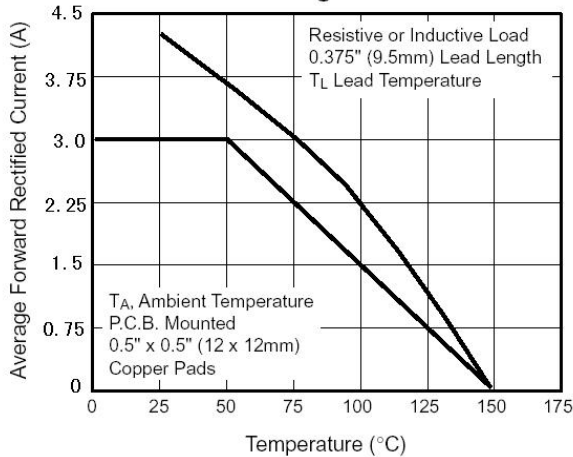


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

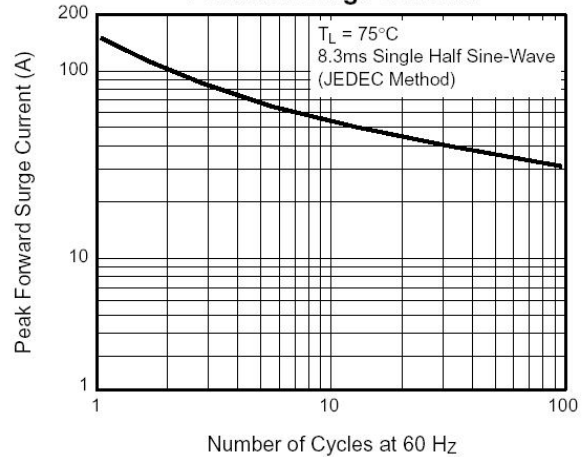


Fig. 3 – Typical Instantaneous Forward Characteristics

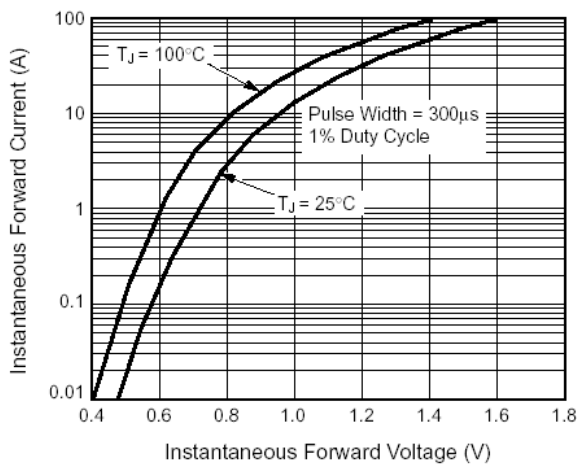


Fig. 4 – Typical Reverse Leakage Characteristics

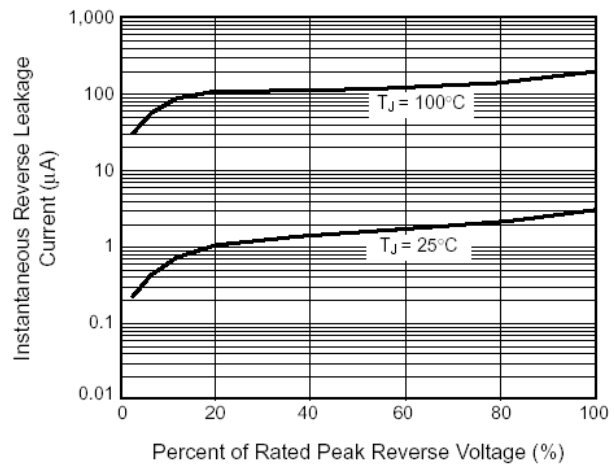


Fig. 5 – Reverse Switching Characteristics

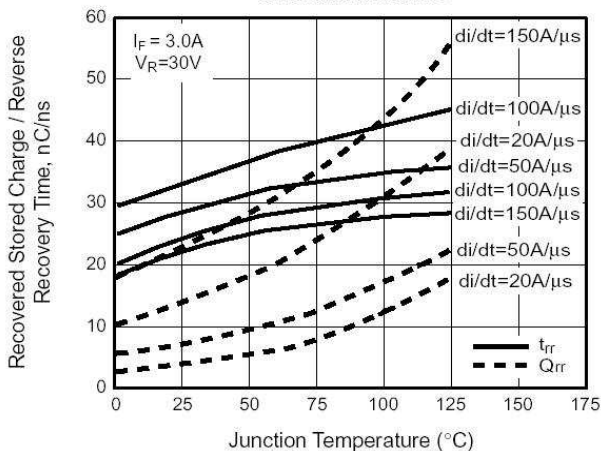


Fig. 6 – Typical Junction Capacitance

