



1N4001GU THRU 1N4007GU

1.0 AMP. Glass Passivated Rectifiers

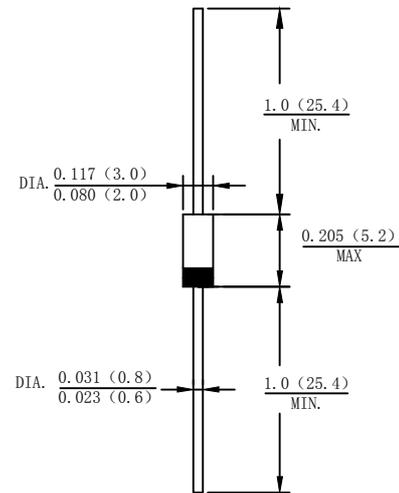
Features

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

Mechanical Data

- Case: Molded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

Case: DO-41



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	1N4001GU	1N4002GU	1N4003GU	1N4004GU	1N4005GU	1N4006GU	1N4007GU	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @ $T_L = 110^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35							A
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	5.084							A^2s
Forward Voltage @ $I_F=1.0\text{A}$	V_{FM}	1.0							V
Peak Reverse Current @ $T_J=25^\circ\text{C}$	I_R	5.0							μA
At Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$		100							
Typical Junction Capacitance (Note 2)	C_J	12							pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	65							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note:

1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig.1 Forward Current Derating Curve

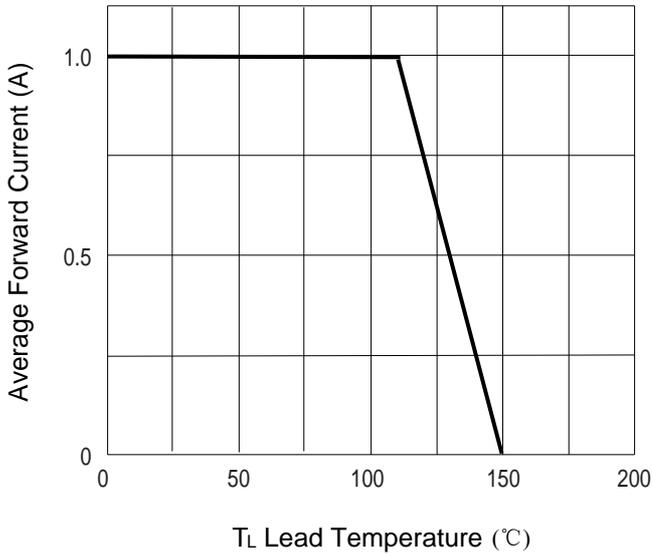


Fig.2 Typical Forward Characteristics

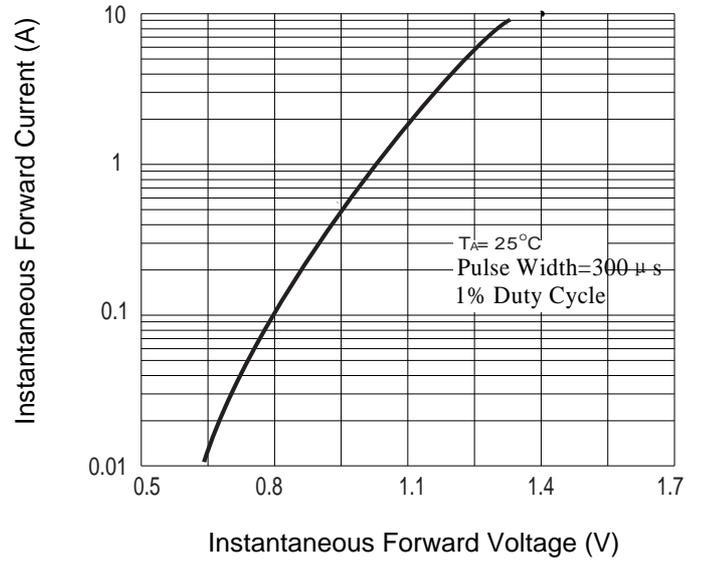


Fig.3 Maximum Non-repetitive Surge Current

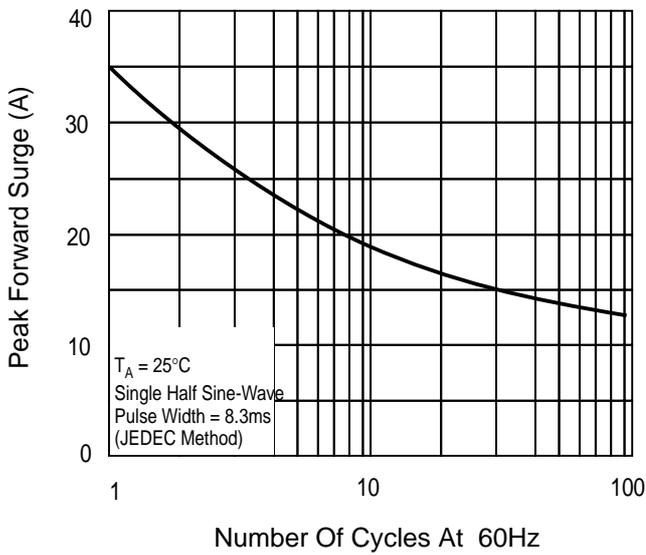
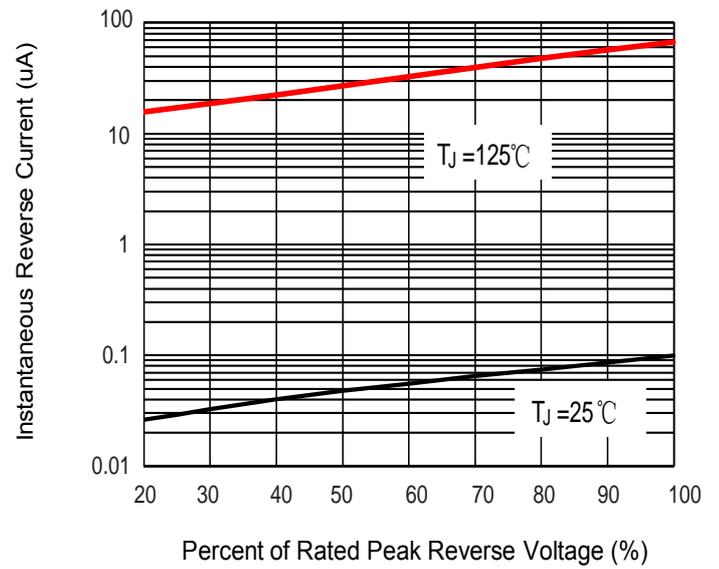


Fig. 4 Typical Reverse Characteristics (per element)





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