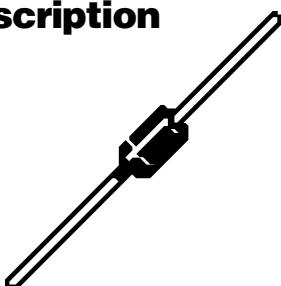
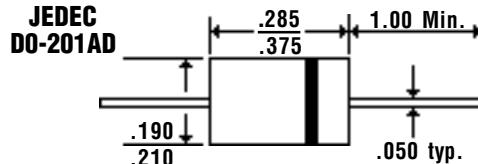


## Description



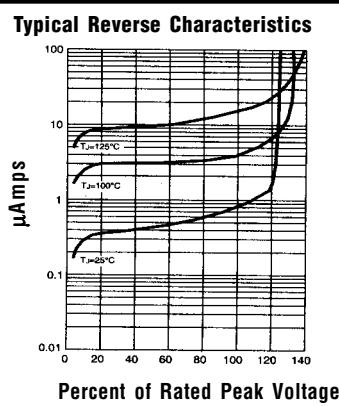
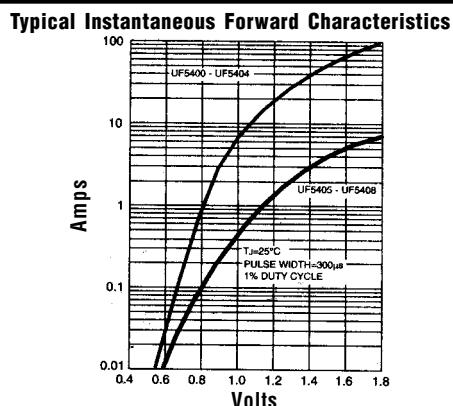
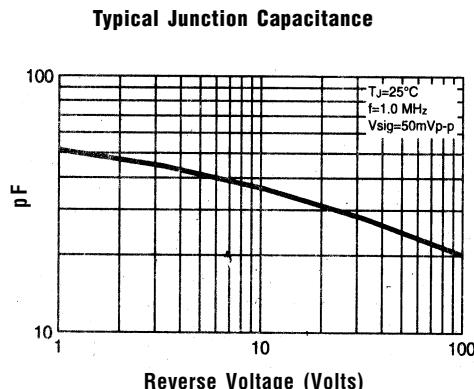
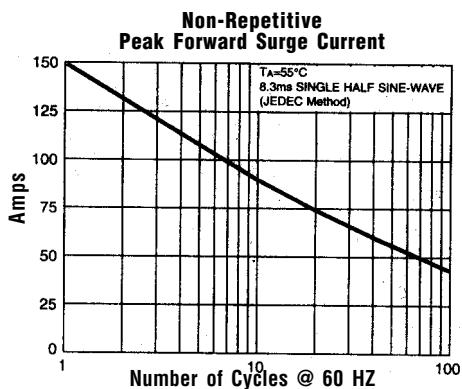
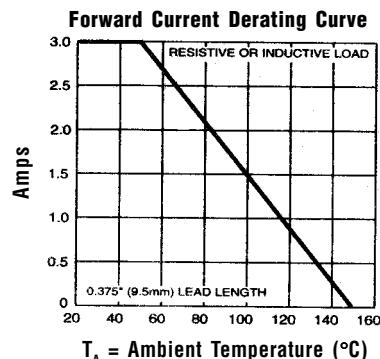
## Mechanical Dimensions



## Features

- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 3.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY
- TYPICAL  $I_R < 0.2 \mu\text{Amp}$

Electrical Characteristics @ 25°C.		GUF30A . . . 30M Series								Units						
Maximum Ratings		GUF 30A	GUF 30B	GUF 30D	GUF 30F	GUF 30G	GUF 30J	GUF 30K	GUF 30M							
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	300	400	600	800	1000		Volts						
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	420	560	700		Volts						
DC Blocking Voltage... $V_{DC}$	50	100	200	300	400	600	800	1000		Volts						
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$						3.0				Amps						
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3mS, ½ Sine Wave Superimposed on Rated Load	<	.....	150	.....	>	<	.....	125	.....	Amps						
Forward Voltage @ Rated Forward Current and 25°C... $V_F$	<	.....	1.1	.....	>	<	.....	1.4	.....	>	<	.....	1.7	.....	>	Volts
Full Load Reverse Current... $I_R(\text{av})$ Full Cycle Average @ $T_A = 55^\circ\text{C}$	<	.....	100	.....	>					µAmps						
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$					10				µAmps						
	$T_A = 125^\circ\text{C}$					100				µAmps						
Typical Junction Capacitance... $C_J$ (Note 1)	<	.....	17	.....	>	<	.....	15	.....	pF						
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	<	.....	40	.....	>	<	.....	50	.....	°C/W						
Typical Reverse Recovery Time... $t_{RR}$ (Note 3)	<	.....	50	.....	>	<	.....	75	.....	nS						
Operating & Storage Temperature Range... $T_J$ , $T_{STRG}$						-65 to 175				°C						



Ratings at  
25 Deg. C ambient  
temperature  
unless otherwise  
specified.

Single Phase Half  
Wave, 60 HZ  
Resistive or  
Inductive Load.

For Capacitive  
Load, Derate  
Current by 20%.

- NOTES:**
1. Measured @ 1 MHZ and applied reverse voltage of 4.0V.
  2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
  3. Reverse Recovery Condition  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .