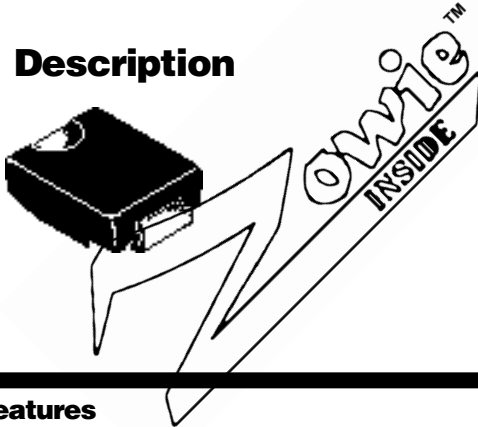




# 3.0 Amp Glass Passivated Sintered Ultra - Fast Rectifiers

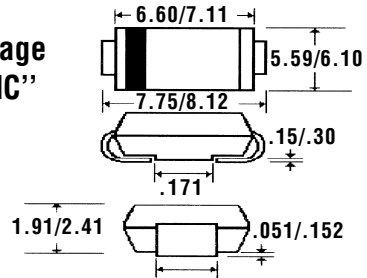
**UGFZ30A . . . 30G Series**

## Description



## Mechanical Dimensions

Package "SMC"



## Features

- **LOWEST COST FOR GLASS SINTERED ULTRA - FAST CONSTRUCTION**
- **LOWEST  $V_F$  FOR GLASS SINTERED ULTRA - FAST CONSTRUCTION**
- **TYPICAL  $I_r < 100$  nAmps**
- **3.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	UGFZ30A . . . 30G Series				Units
Maximum Ratings	30A	30B	30D	30G	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	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, 1/2 Sine Wave Superimposed on Rated Load	125				Amps
Forward Voltage @ 3.0A... $V_F$	< 0.95		> 1.25		Volts
Full Load Reverse Current... $I_r(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$	100				μAmps
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$ 10		$T_A = 150^\circ\text{C}$ 200		μAmps
Typical Junction Capacitance... $C_j$ (Note 1)	60				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	15				°C/W
Maximum Reverse Recovery Time... $t_{RR}$ (Note 3)	35				nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 175				°C

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
  2. 5.0mm<sup>2</sup> (.013mm thick) land areas.
  3. Reverse Recovery Condition  $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$ .