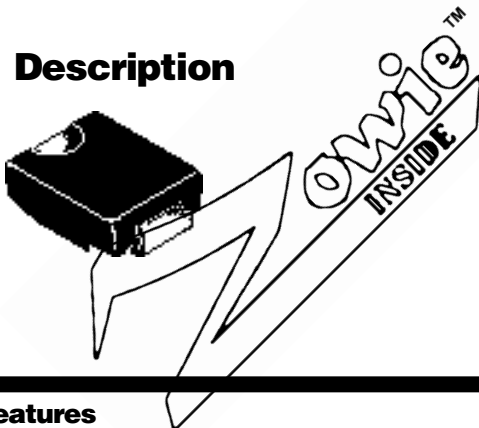
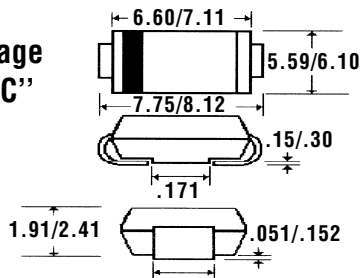


**Description****Mechanical Dimensions**Package
"SMC"**Features**

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

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			μAmps
	$T_A = 150^\circ\text{C}$		200			
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. 5.0mm² (.013mm thick) land areas.
3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.