
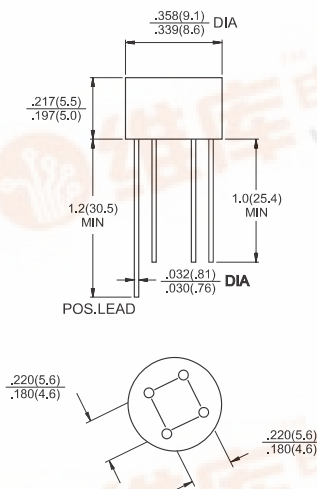
	<h1>1W005GM THRU 1W10GM</h1> <p>Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers</p>									
					<p>Voltage Range 50 to 1000 Volts Current 1.0 Ampere</p>					
<h2>Features</h2> <ul style="list-style-type: none">UL Recognized File # E-96005Glass passivated junctionSurge overload ratings to 30 amperes peakIdeal for printed circuit boardReliable low cost construction technique results in inexpensive productHigh temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs. (2.3 Kg) tension					<h3>WOB</h3>  <p>Dimensions in inches and (millimeters)</p>					
<h2>Mechanical Data</h2> <ul style="list-style-type: none">Cases: Molded plasticLead: Solder platedPolarity: As markedWeight: 1.10 grams										
<h2>Maximum Ratings and Electrical Characteristics</h2> <p>Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%</p>										
Type Number	Symbol	1W 005GM	1W 01GM	1W 02GM	1W 04GM	1W 06GM	1W 08GM	1W 10GM	Units	
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	
Maximum Average Forward Rectified Current @ $T_A = 50^{\circ}\text{C}$	$I_{(AV)}$	1.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30							A	
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.0							V	
Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}\text{C}$	I_R	10 500							μA μA	
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	36 13							$^{\circ}\text{C}/\text{W}$	
Operating Temperature Range	T_J	-55 to +150							$^{\circ}\text{C}$	
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}\text{C}$	

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2" x 0.2" (5mm x 5mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (1W005GM THRU 1W10GM)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

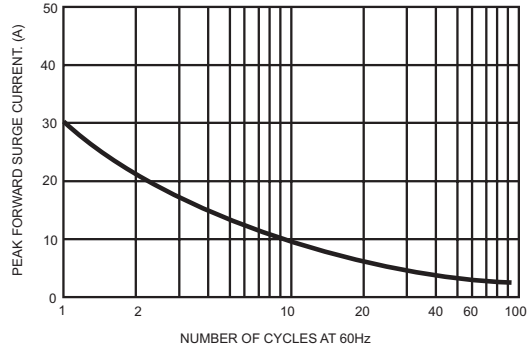


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

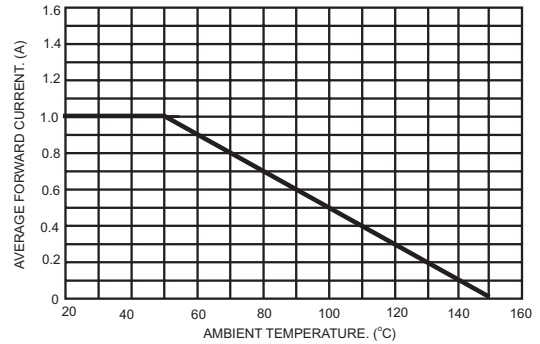


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

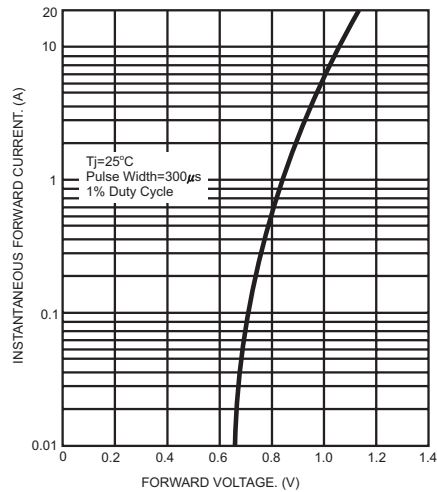


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

