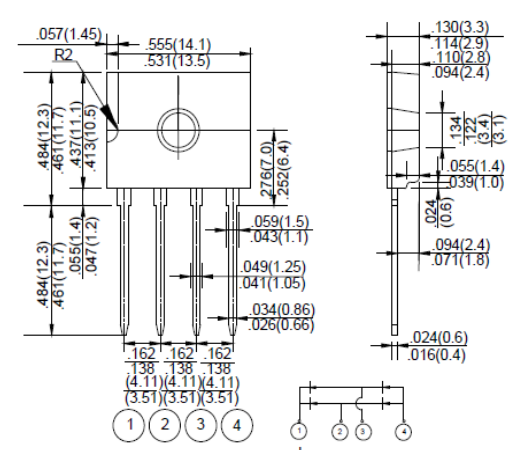


GLASS PASSIVATED BRIDGE RECTIFIERS		REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6 Amperes							
<p>FEATURES</p> <ul style="list-style-type: none"> • Glass passivated chip junction • High case dielectric strength • High surge current capability • Ideal for printed circuit board <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Polarity: As marked on Body • Mounting position: Any 		<p style="text-align: center;">GBP</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>							
<p>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%</p>									
Characteristics	Symbol	GBP 6005	GBP 601	GBP 602	GBP 604	GBP 606	GBP 608	GBP 610	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse 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 Output Current @ $T_C=140^\circ\text{C}$ (with heatsink)	$I_{(AV)}$	6							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC method)	I_{FSM}	150							A
Maximum Forward Voltage at 3.0A DC	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
I^2t Rating for Fusing ($t<8.3\text{ms}$)	I^2t	93							A^2s
Maximum Typical Thermal									$^\circ\text{C/W}$
	without heatsink	$R_{\theta JA}$							55
	with heatsink	$R_{\theta JC}$							1.5
	without heatsink	$R_{\theta JL}$							15
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

Rating and Characteristic Curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

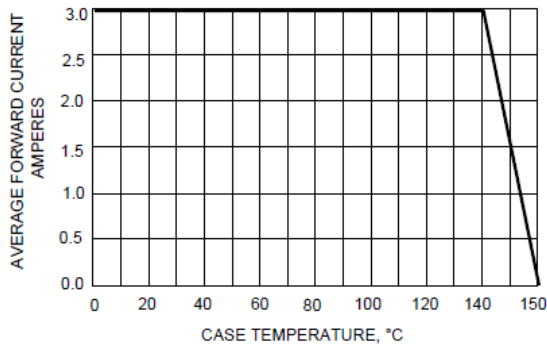


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

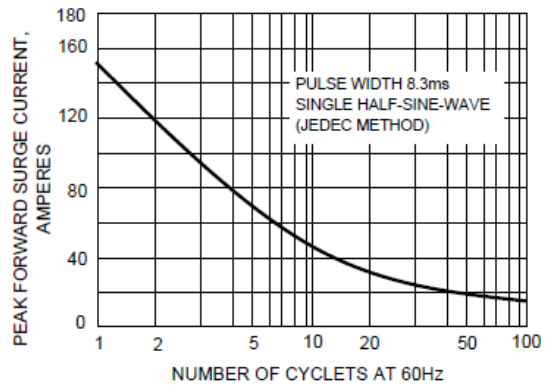


FIG.3-TYPICAL FORWARD CHARACTERISTICS

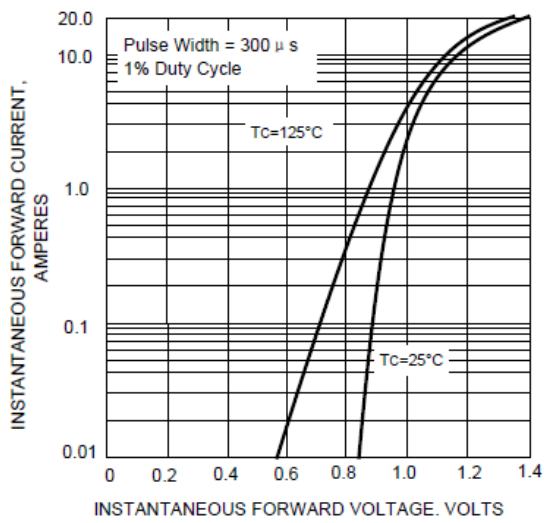


FIG.4-TYPICAL REVERSE CHARACTERISTICS

