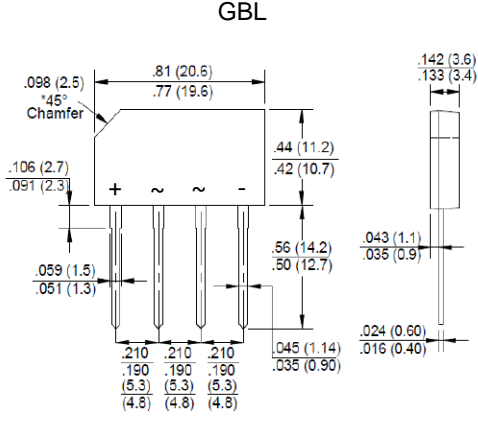


GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 4 Amperes								
<p>FEATURES</p> <ul style="list-style-type: none"> • Glass passivated chip • Low forward voltage drop • Ideal for printed circuit board • High surge current capability <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Polarity: As marked on Body • Mounting position: Any 	<p>GBL</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</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%									
Characteristics	Symbol	GBL 401	GBL 402	GBL 403	GBL 404	GBL 405	GBL 406	GBL 407	Unit
Maximum Repetitive 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 @ $T_A=100^\circ\text{C}$	$I_{(AV)}$	4							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC)	I_{FSM}	135							A
Peak Forward Voltage Drop Per Diode at 2A DC at 4A DC	V_F	0.95 1.05							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Diode @ $T_J=125^\circ\text{C}$	I_R	5 500							μA
I^2t Rating for Fusing (1ms $\leq t \leq$ 8.3ms)	I^2t	75.6							A^2s
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	28 4.2 4							$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$
Note: 1. Mounting conditions ,0.5" lead length maximum.									

Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve
图1 正向电流降额曲线

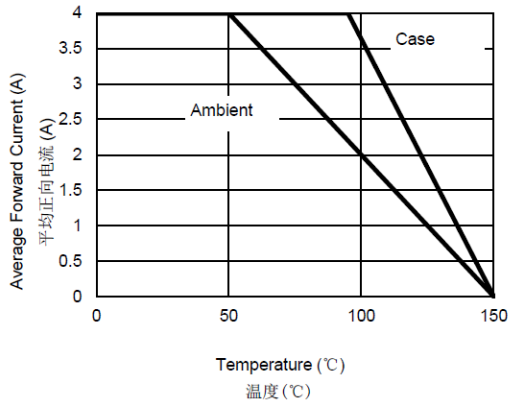


Fig. 2 - Maximum Non-Repetitive Surge Current
图2 最大不重复正向浪涌曲线

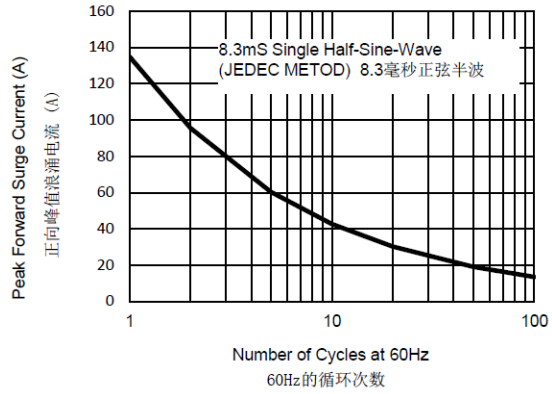


Fig. 3 - Typical Reverse Characteristics
图3 典型的反向特性

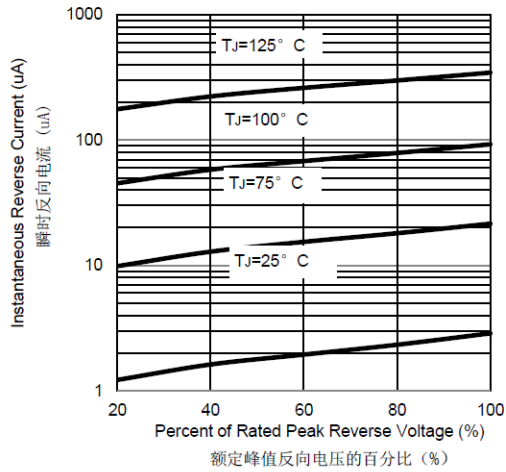


Fig. 4 - Typical Forward Characteristics
图4 典型的正向特性

