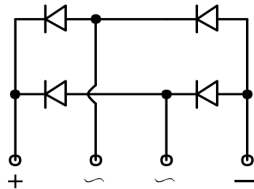
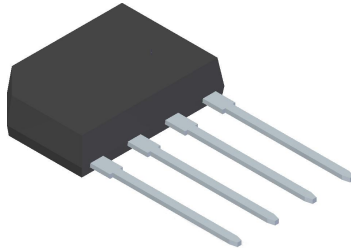


GBP



REVERSE VOLTAGE - **50 to 1000** Volts

FORWARD CURRENT - **6.0** Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V#0

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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
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 @ $T_C=105^{\circ}C$ (With heatsink) (Without heatsink)	$I_{(AV)}$	6.0 3.0							A
Peak Forward Surge Current @ $T_J = 25^{\circ}C$ 8.3ms single half sine-wave	I_{FSM}	150							A
Maximum Forward Voltage at 4.0A DC	V_F	1.1							V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R	5.0 500							μA
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	93							A^2S
Typical Junction Capacitance per element (Note 1)	C_J	46							pF
Typical thermal resistance (Unit mounted on 75mmx75mmx1.6mm Copper plate heatsink.)	$R_{\theta JC}$	3.0							$^{\circ}C/W$
Typical thermal resistance (without heatsink)	$R_{\theta JC}$	8.0							$^{\circ}C/W$
Operation and Storage Temperature Range	T_J, T_{STG}	-55 to 150							$^{\circ}C$

Note : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Fig.1 Average Rectified Output Current Derating Curve

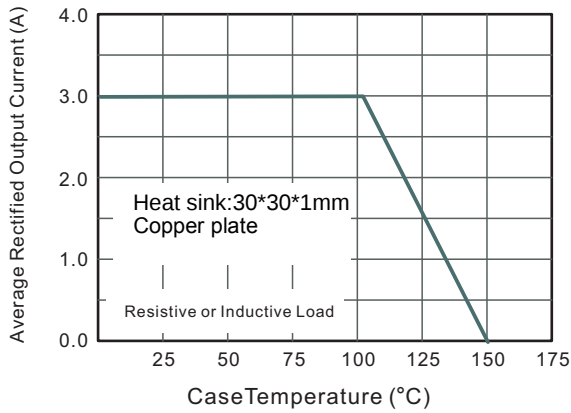


Fig.2 Typical Reverse Characteristics

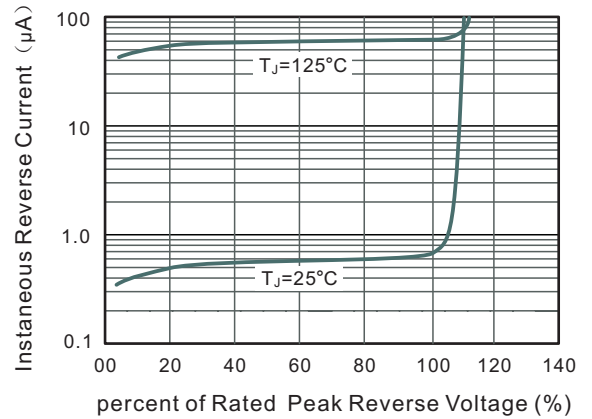


Fig.3 Typical Instantaneous Forward Characteristics

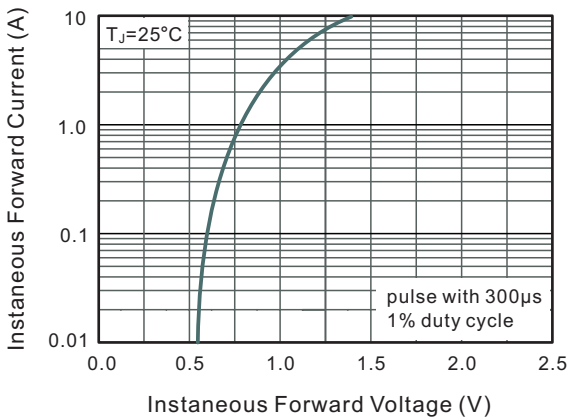
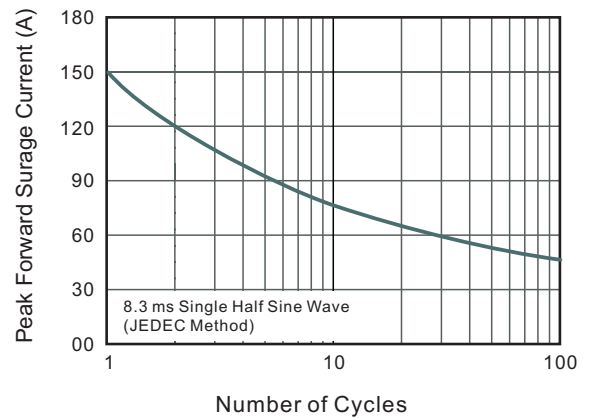


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



GBP Package Outline Dimensions

