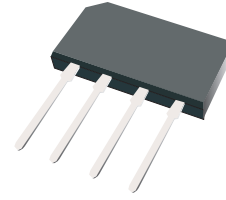


## GBL005-G Thru. GBL10-G

Reverse Voltage: 50 to 1000V

Forward Current: 4.0A

RoHS Device

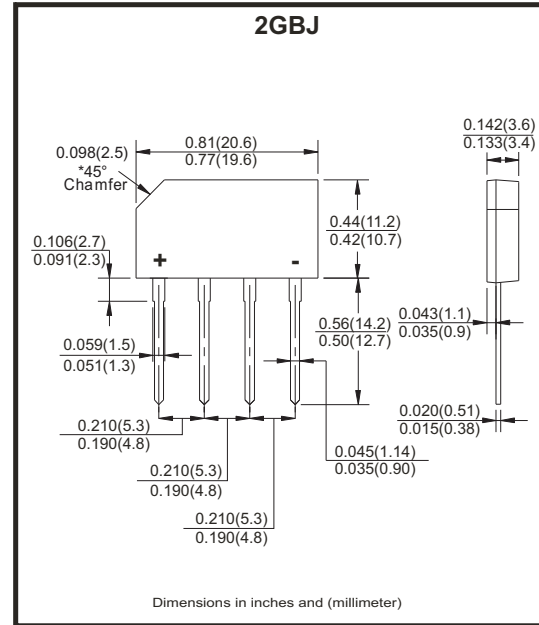


### Features

- Rating to 1000V PRV
- Surge overload rating - 125 amperes peak.

### Mechanical Data

- Epoxy: U/L 94-V0 rate flame retardant.
- Case: Molded plastic, 2GBJ
- Polarit:As marked on Body
- Mounting position: Any
- Weight: 2.151grams



### Maximum ratings and electrical characteristics

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave ,60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Parameter	Symbol	GBL005-G	GBL01-G	GBL02-G	GBL04-G	GBL06-G	GBL08-G	GBL10-G	Unit
Maximum Reverse Peak Repetitive Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 @ $T_A=50^{\circ}C$	$I_{(AV)}$	4.0							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	$I_{FSM}$	125							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	$V_F$	1.1							V
Maximum Reverse Current At Rate DC Blocking Voltage	$I_R$	10.0							$\mu A$
Maximum Reverse Current At Rate DC Blocking Voltage @ $T_J=100^{\circ}C$	$I_R$	1.0							mA
Operating Temperature Range	$T_J$	-55 to +150							$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^{\circ}C$

Notes:

1. Mounting Conditions,0.5" lead length maximum.

## Rating and Characteristics Curves (GBL005-G Thru. GBL10-G)

Fig.1 - Maximum Non-repetitive Surge Current

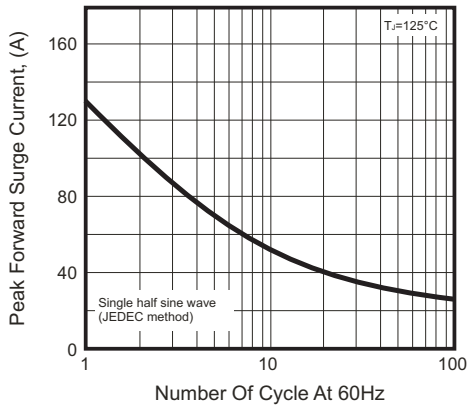


Fig.2 - Forward Derating Current

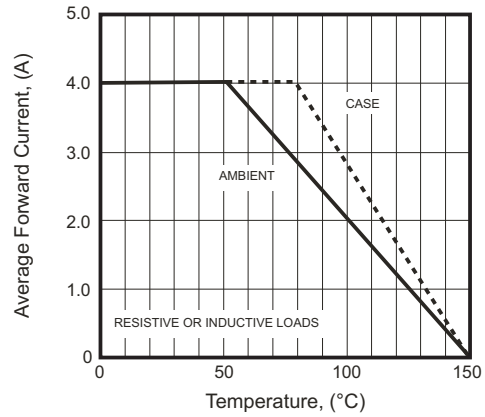


Fig.3 - Typical Forward Characteristics

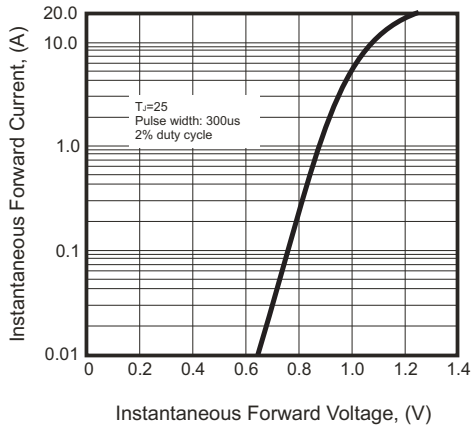
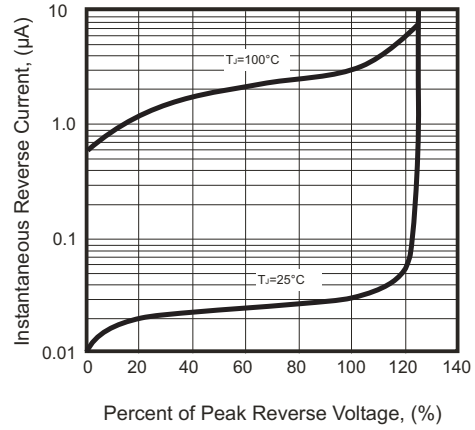
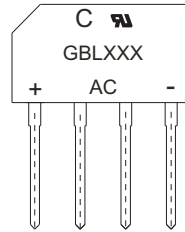


Fig.4 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
GBL005-G	GBL005
GBL01-G	GBL01
GBL02-G	GBL02
GBL04-G	GBL04
GBL06-G	GBL06
GBL08-G	GBL08
GBL10-G	GBL10



XX / XXX = Product type marking code  
C = Comchip Logo

## Standard Packaging

Case Type	TUBE PACK	
	TUBE ( pcs )	BOX ( pcs )
2GBJ	20	1,000