



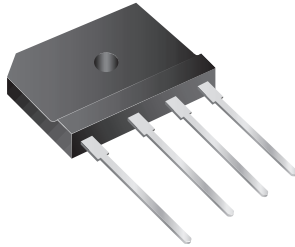
Elektronische Bauelemente

# GBJ8005 THRU GBJ810

VOLTAGE -50V ~ 1000V

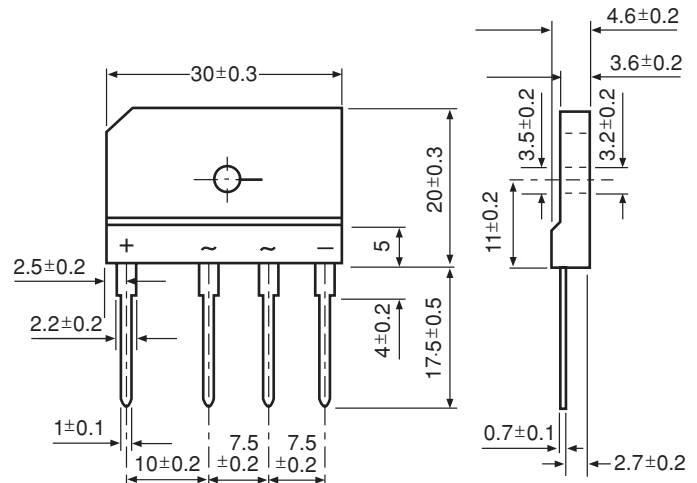
-8.0 AMP Glass Passivated Bridge Rectifiers

RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.



## FEATURES

- \* Low Forward voltage Drop, High Current Capability
- \* Ideal For Printed Circuit Board
- \* Reliable Low Cost Construction Utilizing Molded Plastic Technique Results In Inexpensive Product
- \* Plastic Material Has Underwrites Laboratory Flammability Classification 94V-0
- \* Rating To 1000V PRV



Dimensions in millimeters

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load, 60Hz,  
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBJ 8005	GBJ 801	GBJ 802	GBJ 804	GBJ 806	GBJ 808	GBJ 810	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 (with heatsink Note2) Rectified Current @ $T_C=100$ (without heatsink)	$I_{(AV)}$				8.0				A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$				170				A
Maximum Forward Voltage at 4.0A	$V_F$				1.10				V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=125^\circ\text{C}$	$I_R$				5.0				$\mu\text{A}$
$I^2t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$				120				$\text{A}^2\text{s}$
Typical Junction Capacitance per element (Note1)	$C_J$				55				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$				1.8				$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$				- 55 ~ + 150				$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$				- 55 ~ + 150				$^\circ\text{C}$

### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.