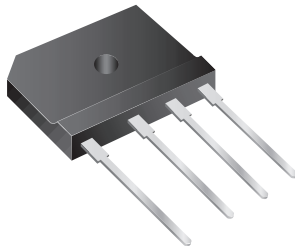
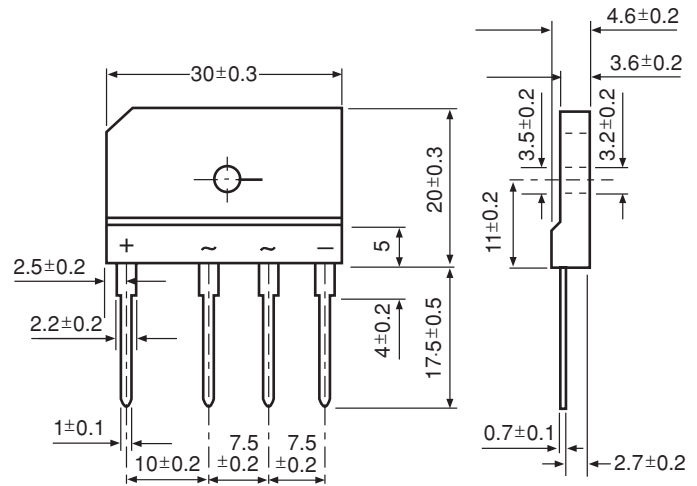


RoHS Compliant Product
 A suffix of "-C" specifies halogen-free.



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 $T_a=25^\circ C$ at Rated DC Blocking Voltage $T_a=125^\circ C$	I_R					5.0				μA
I^2t Rating for fusing ($t < 8.3ms$)	I^2t					120				A ² S
Typical Junction Capacitance per element (Note1)	C_J					55				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$					1.8				$^\circ C / W$
Operating Temperature Range	T_J					- 55 ~ + 150				$^\circ C$
Storage Temperature Range	T_{STG}					- 55 ~ + 150				$^\circ C$

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.