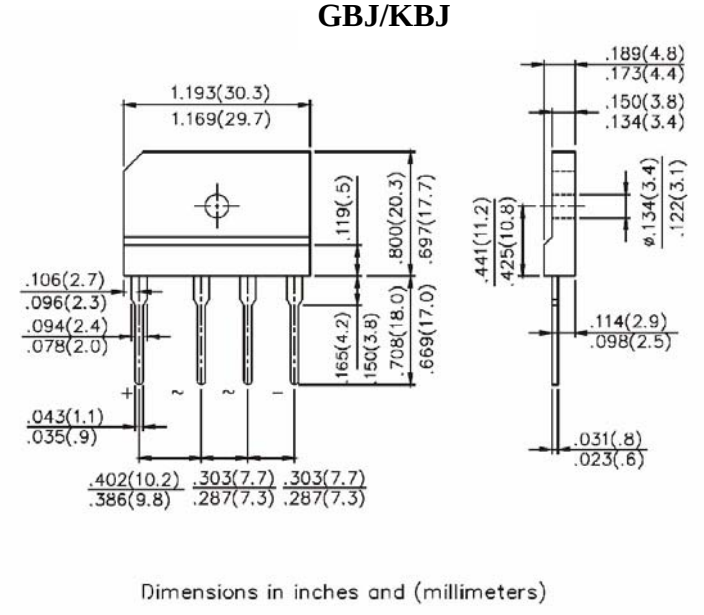
Central Plate Electronics Co., Ltd.

SINGLE-PHASE SILICON BRIDGE
GBJ25005 thru GBJ2510 50 to 1000 V 25.0 A

FEATURES

- Low leakage
- Low forward voltage
- Mounting Position: Any
- Surge overload rating:300 amperes peak
- Siliver-plated copper leads

GBJ/KBJ



Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS(At T_A=25℃ unless otherwise noted)

RATINGS	Symbol	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at @ T_C =50℃	I_O	25							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	300							Amp
Maximum Forward Voltage drop per element of 12.5A DC	V_F	1.1							Volts
Maximum DC Reverse Current at rated @ T_A=25℃	I_R	10							μ Amp
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

RATINGS AND CHARACTERISTIC CURVES (KBJ25005 thru KBJ2510)

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

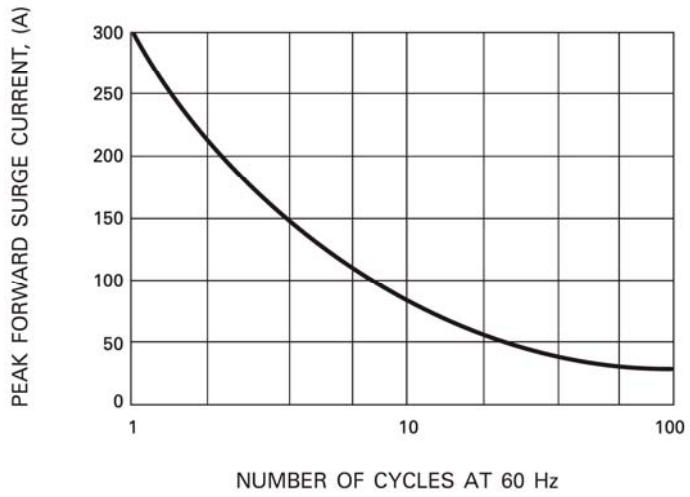


Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

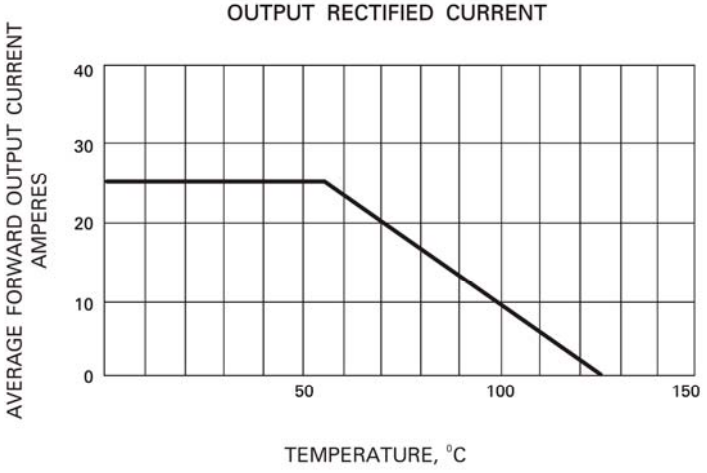


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

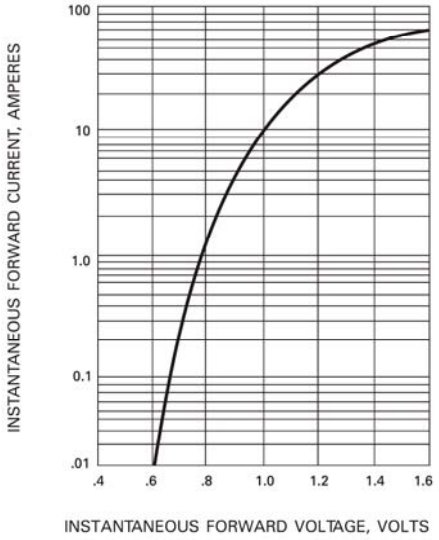


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS