

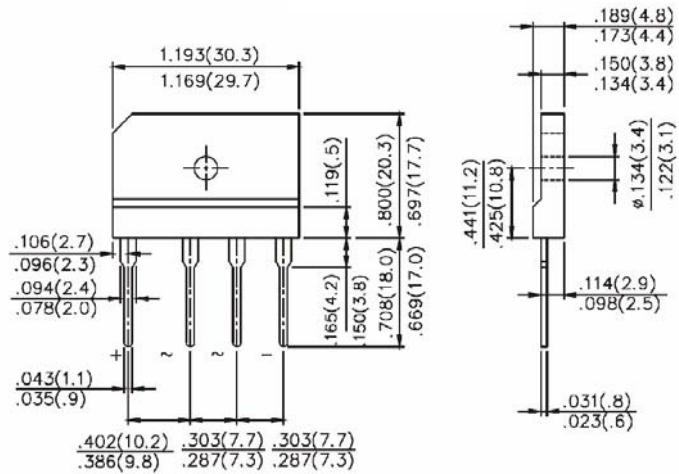
SINGLE-PHASE SILICON BRIDGE

KBJ25005 thru KBJ2510 50 to 1000 V 25.0 A

FEATURES

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

GBJ/KBJ



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

MAXIMUM RATINGS (At $T_A=25^\circ\text{C}$ unless otherwise noted)

RATINGS	Symbol	KBJ25005	KBJ2501	KBJ2502	KBJ2504	KBJ2506	KBJ2508	KBJ2510	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 @ $T_C=50^\circ\text{C}$	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 @ $T_A=25^\circ\text{C}$	I_R	10							μ Amp
Operating Temperature Range	T_j	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES (KBJ25005 thru KBJ2510)

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

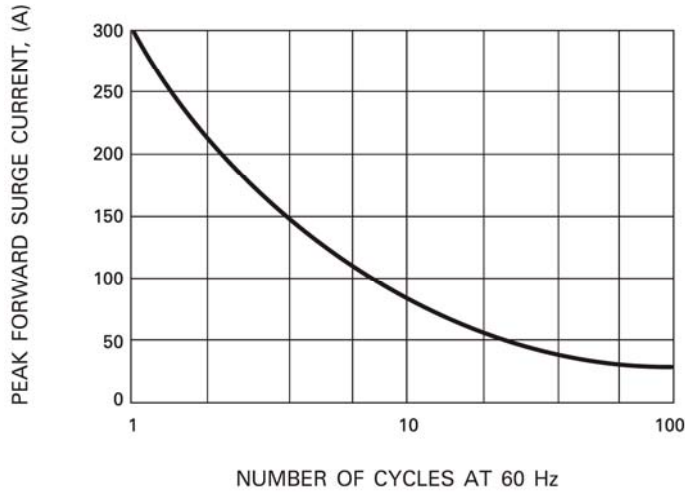


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

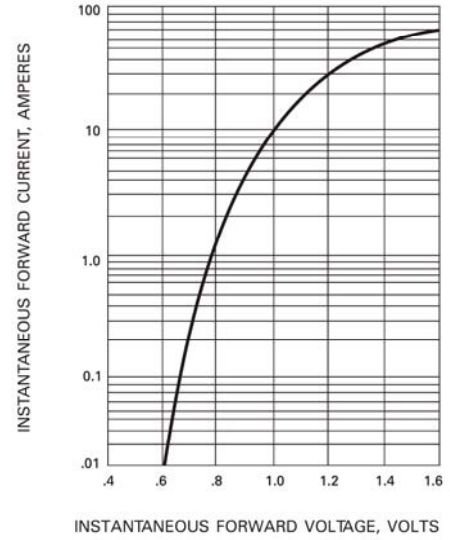


Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

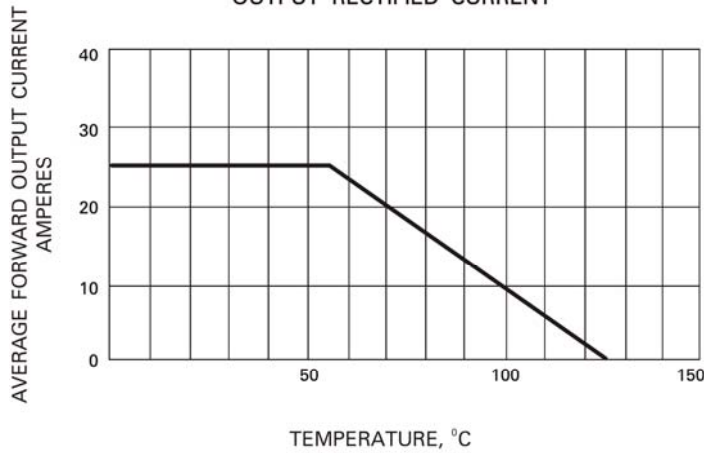


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS

