



CHENMKO ENTERPRISE CO.,LTD

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 - 1000 Volts CURRENT 4.0 Amperes

Halogens free devices

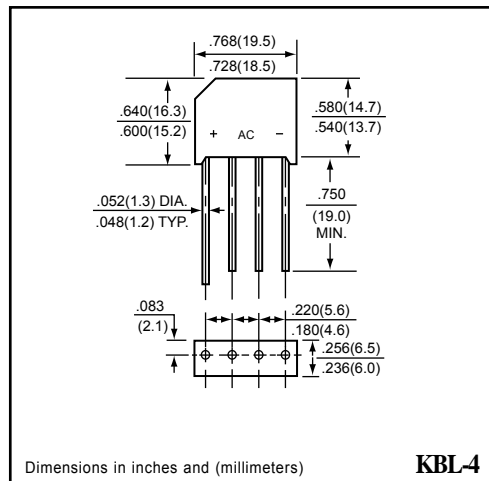
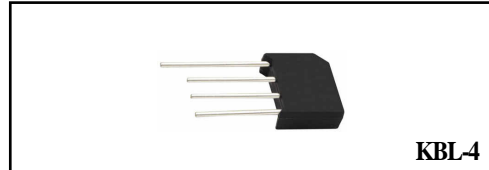
**KBL005GP
THRU
KBL10GP**

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating - 200 Amperes peak
- * Plastic material used carries Underwriters Laboratory Recognition
- * Exceeds environmental standards of MIL-STD-19500

MECHANICAL DATA

Case: JEDEC KBL-4 molded plastic
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Mounting position: Any
Polarity: Polarity symbols marked on body
Weight: 4.8 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS		SYMBOL	KBL005GP	KBL01GP	KBL02GP	KBL04GP	KBL06GP	KBL08GP	KBL10GP	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C		Io	4.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	200							Amps
Operating Temperature Range		TJ	-55 to +125							°C
Storage Temperature Range		TSTG	-55 to +150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	KBL005GP	KBL01GP	KBL02GP	KBL04GP	KBL06GP	KBL08GP	KBL10GP	UNITS
Maximum Instantaneous Forward Voltage at 4.0 A DC		VF	1.0							Volts
Maximum Reverse Current at rated DC blocking Voltage per element	@ TA = 25°C	IR	10							uAmps
	@ TA = 100°C		0.2							mAmps

RATING CHARACTERISTIC CURVES (KBL005GP THRU KBL10GP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

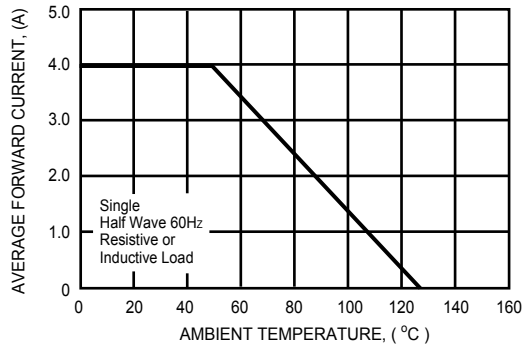


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

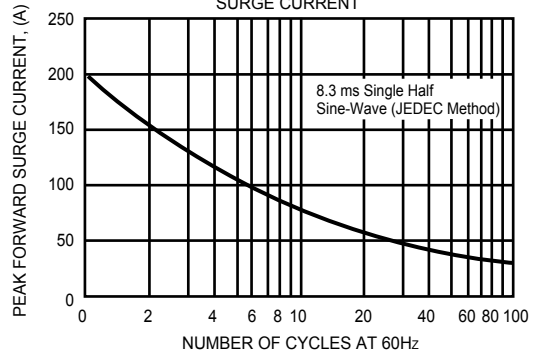


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

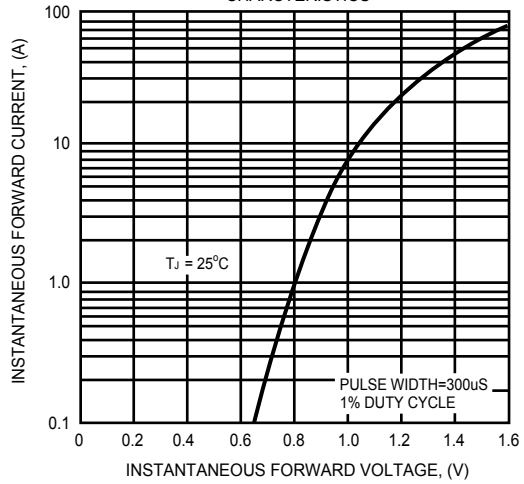


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

