



CHENMKO ENTERPRISE CO.,LTD

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

VOLTAGE RANGE 50 - 1000 Volts CURRENT 4.0 Amperes

Lead free devices

KBL005PT

THRU

KBL10PT

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

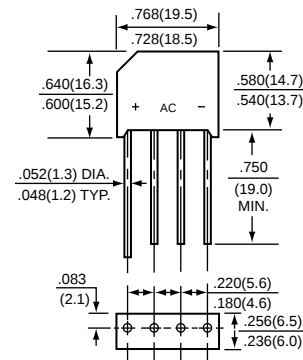
Weight: 4.8 grams

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%.



KBL-4



Dimensions in inches and (millimeters)

KBL-4

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

RATINGS		SYMBOL	KBL005PT	KBL01PT	KBL02PT	KBL04PT	KBL06PT	KBL08PT	KBL10PT	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	KBL005PT	KBL01PT	KBL02PT	KBL04PT	KBL06PT	KBL08PT	KBL10PT	UNITS
Maximum Instantaneous Forward Voltage at 4.0 A DC		VF	1.0							Volts
Maximum Reverse Current at rated	@ TA = 25°C	IR	10							uAmps
DC blocking Voltage per element	@ TA = 100°C		0.2							mAmps

RATING CHARACTERISTIC CURVES (KBL005PT THRU KBL10PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

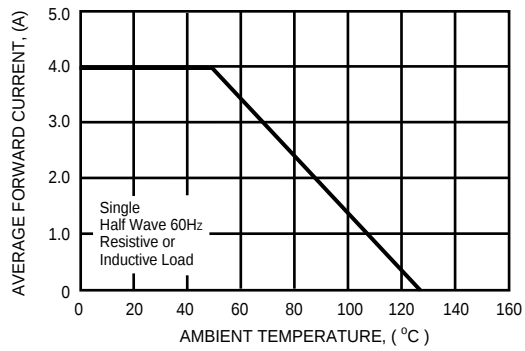


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

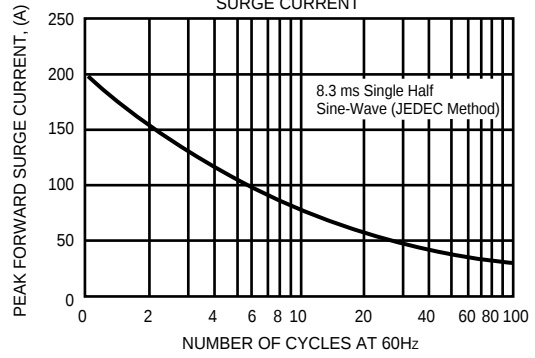


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

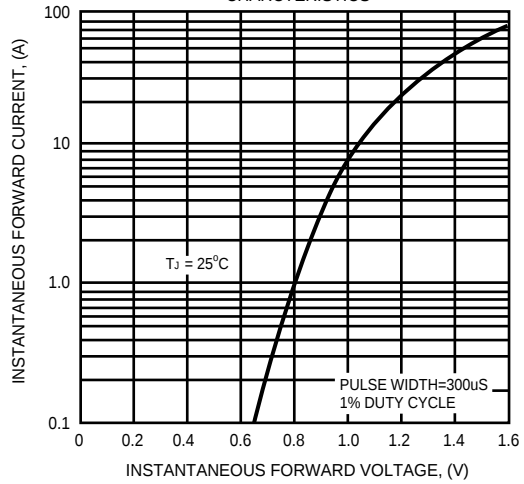


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

