



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SINGLE-PHASE GLASS PASSIVATED

SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 15.0 Amperes

KBPC15005PT

THRU

KBPC1510PT

FEATURES

- * Superior thermal design
- * 300 amperes surge rating
- * 1/4" universal faston terminal
- * Hole thru for # 8 screw

MECHANICAL DATA

Case: JEDEC KBPC-15 molded plastic

Terminals: Plated leads solderable per MIL-STD-750,
Method 2026

Mounting position: Any

Polarity: Polarity symbols marked on body

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%.



KBPC-15

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

RATINGS		SYMBOL	KBPC1501PT	KBPC1505PT	KBPC1502PT	KBPC1504PT	KBPC1506PT	KBPC1508PT	KBPC1510PT	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 Tc = 55°C		Io	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	300							Amps
Operating and Storage Temperature Range		Tj,Tstg	-55 to +150							°C

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

CHARACTERISTICS		SYMBOL	KBPC1501PT	KBPC1505PT	KBPC1502PT	KBPC1504PT	KBPC1506PT	KBPC1508PT	KBPC1510PT	UNITS
Maximum Instantaneous Forward Voltage at 7.5 A DC		VF	1.1							Volts
Maximum Reverse Current at rated	@ TA = 25°C	IR	10							uAmps
DC blocking Voltage per element	@ Tc = 100°C		0.5							mAmps

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

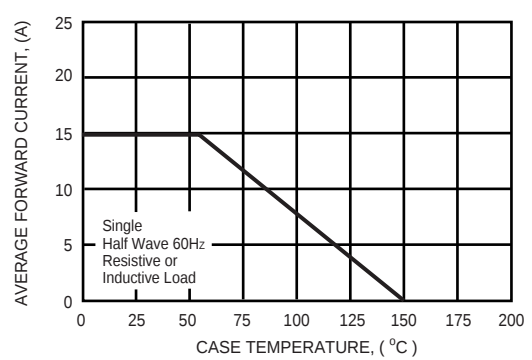


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

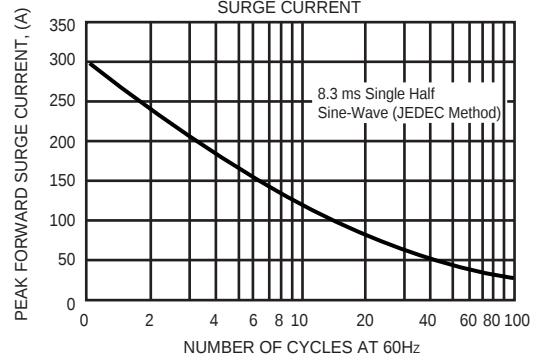


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

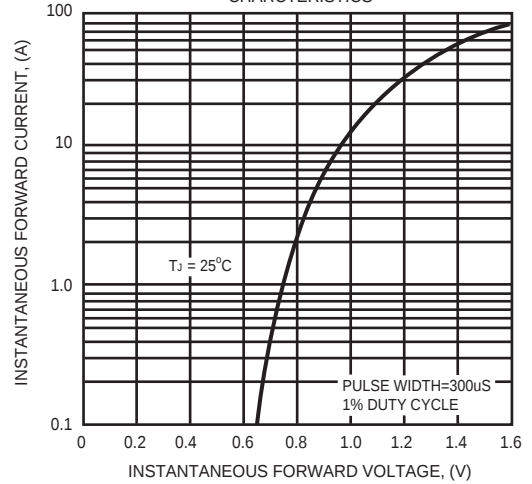
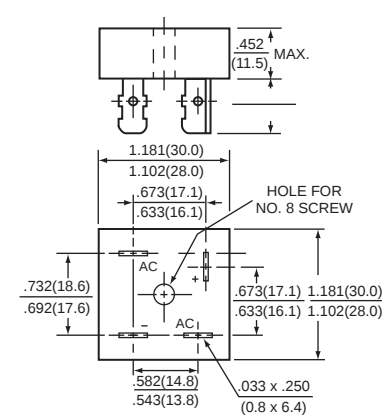
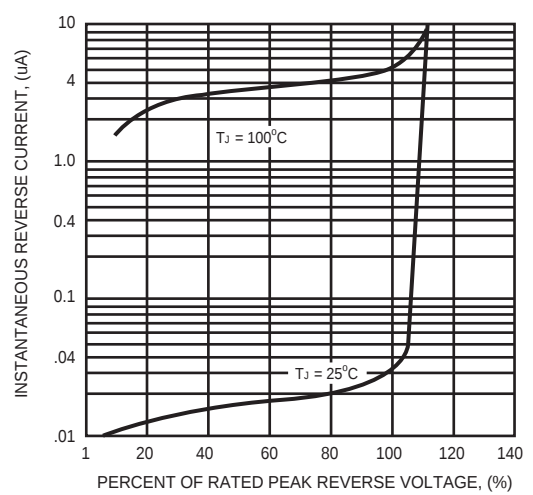
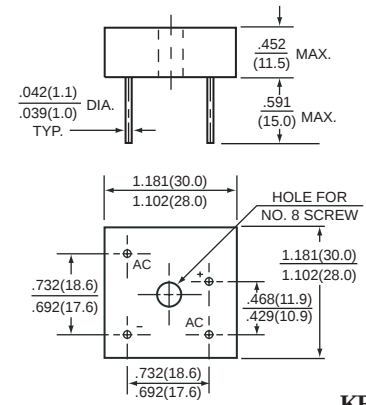


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



KBPC-15



KBPC-15W