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





KBPC-15

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 RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	KBPC1501PT	KBPC15005PT	KBPC1502PT	KBPC1504PT	KBPC1506PT	KBPC1508PT	KBPC1510PT	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 Rectified Current at T_C = 55°C	I_O	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300							Amps
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150							°C

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

CHARACTERISTICS		SYMBOL	KBPC1501PT	KBPC15005PT	KBPC1502PT	KBPC1504PT	KBPC1506PT	KBPC1508PT	KBPC1510PT	UNITS
Maximum Instantaneous Forward Voltage at 7.5 A DC		V_F	1.1							Volts
Maximum Reverse Current at rated DC blocking Voltage per element	@ T_A = 25°C	I_R	10							uAmps
	@ T_C = 100°C		0.5							mAmps

2001-6

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

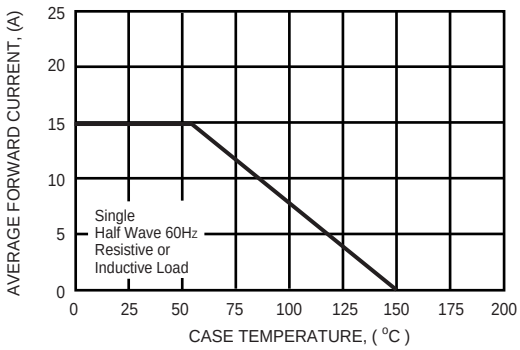


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

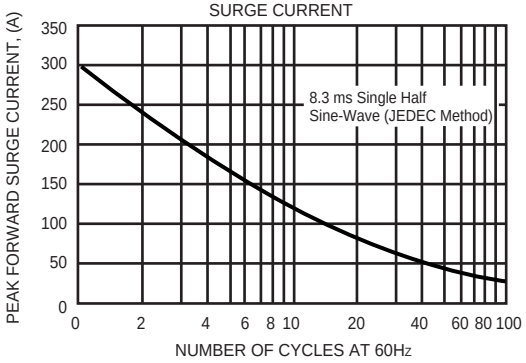


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

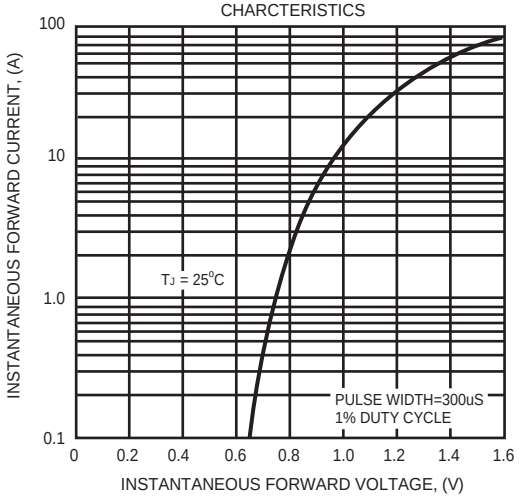
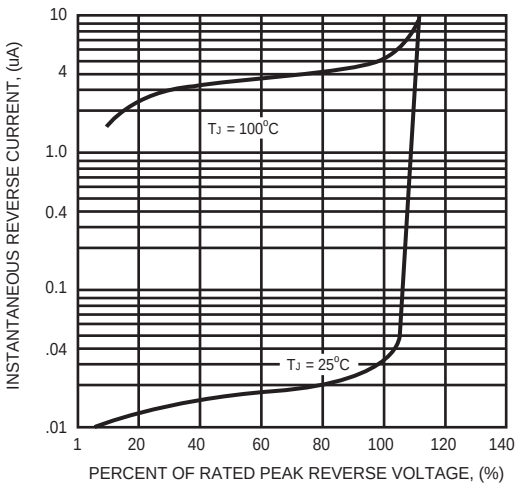
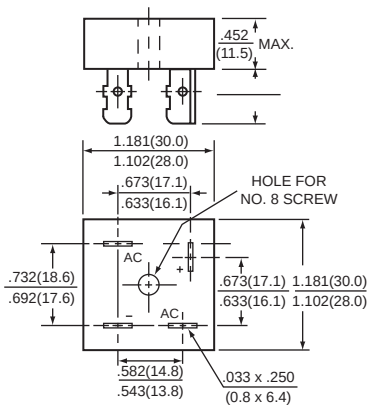
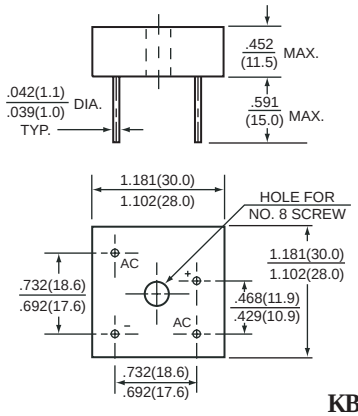


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





KBPC-15



KBPC-15W