



CHENMKO ENTERPRISE CO.,LTD

**SINGLE-PHASE PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 - 1000 Volts CURRENT 10.0 Amperes

KBPC10005PT

THRU

KBPC1010PT

Lead free devices

FEATURES

- * Surge overload rating 200 amperes peak
- * Low forward voltage drop
- * Small size : simple installation
- * Silver-plated copper leads

MECHANICAL DATA

Case: JEDEC KBPC-10 molded plastic

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

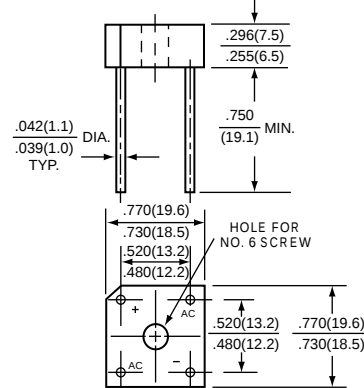
Mounting position: Any

Mounting: Hole thru for # 6 screw

Weight: 7.86 grams



KBPC-10



Dimensions in inches and (millimeters)

KBPC-10

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

RATINGS	SYMBOL	KBPC1001PT	KBPC1005PT	KBPC1002PT	KBPC1004PT	KBPC1006PT	KBPC1008PT	KBPC1010PT	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 Tc = 50°C	Io	10.0							Amps
Rectified Output Current TC = 100°C		6.0							
TA = 50°C		6.0							
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 $T_A = 25^{\circ}\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	KBPC1001PT	KBPC1005PT	KBPC1002PT	KBPC1004PT	KBPC1006PT	KBPC1008PT	KBPC1010PT	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC	V_F	1.1							Volts
Maximum Reverse Current at rated	I_R	10							μAmps
DC blocking Voltage per element		0.2							mAmps

RATING CHARACTERISTIC CURVES (KBPC10005PT THRU KBPC1010PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

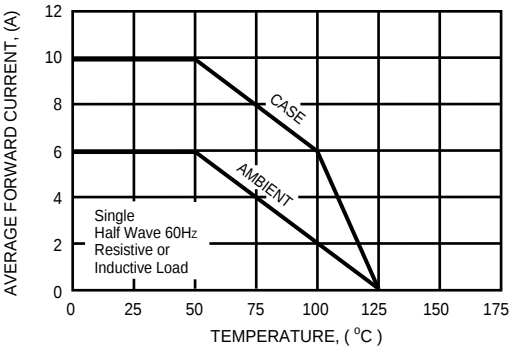


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

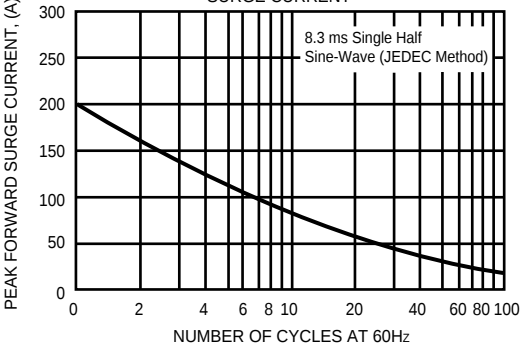


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

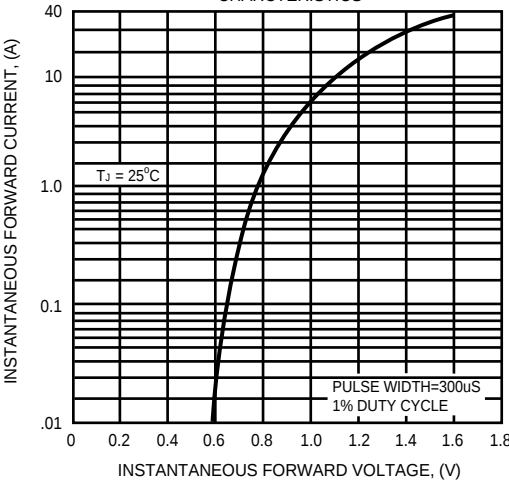


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

