



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SINGLE-PHASE PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 3.0 Amperes

**KBPC1005GP
THRU
KBPC110GP**

FEATURES

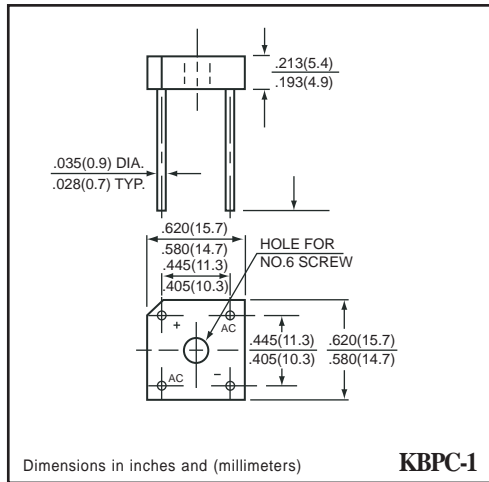
- * Surge overload rating 50 amperes peak
- * Low forward voltage drop
- * Small size : simple installation
- * Silver-plated copper leads

MECHANICAL DATA

Case: JEDEC KBPC-1 molded plastic
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Mounting position: Any
Mounting: Hole thru for # 6 screw
Weight: 3.36 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	KBPC101GP	KBPC1005GP	KBPC102GP	KBPC104GP	KBPC106GP	KBPC108GP	KBPC110GP	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 = 50°C	I _O	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Operating Temperature Range	T _J	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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

CHARACTERISTICS	SYMBOL	KBPC101GP	KBPC1005GP	KBPC102GP	KBPC104GP	KBPC106GP	KBPC108GP	KBPC110GP	UNITS
Maximum Instantaneous Forward Voltage at 1.5 A DC	V _F	1.0							Volts
Maximum Reverse Current at rated DC blocking Voltage per element	@ TA = 25°C	10							uAmps
	@ TA = 100°C	0.1							mAmps

RATING CHARACTERISTIC CURVES (KBPC1005GP THRU KBPC110GP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

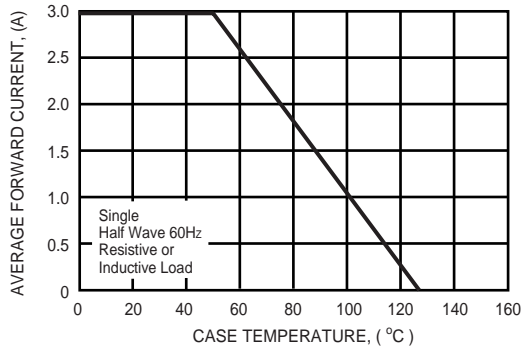


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

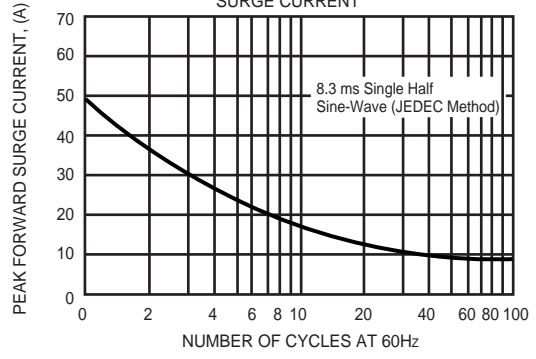


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

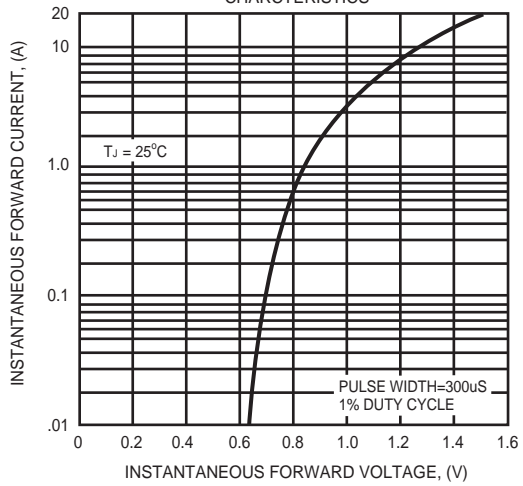


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

