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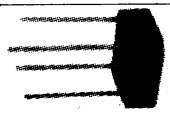
KBPC600 THRU KBPC610

SINGLE PHASE 6.0 AMPS SILICON BRIDGE RECTIFIERS

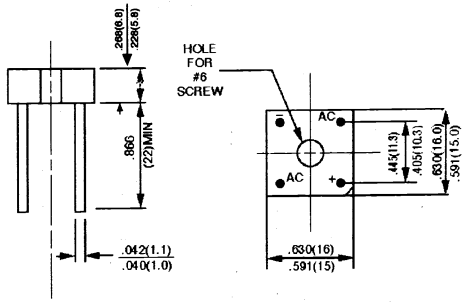


VOLTAGE RANGE
50 to 1000 Volts
CURRENT
6.0 Amperes

FEATURES

* Surge overload rating 200 amperes peak
* Low forward voltage drop
* Small size, simple installation
* Leads solderable per MIL – STD – 202 Method 208

KBPC-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	KBPC 600	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C = 50℃$ (1,2)	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200							A
Maximum Forward Voltage Drop per element @ 3.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25℃$ D.C. Blocking Voltage per element @ $T_A = 100℃$	I_R	10 500							μA μA
Operating Temperature Range	T_J	– 55 to + 125							℃
Storage Temperature Range	T_{STG}	– 55 to + 150							℃

NOTE: (1) Bolt down on heat – sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 6 screw
(2) Unit mounted on 5.5 × 6.0 × 0.11"thick(14 × 15 × 0.3cm) Al. Plate

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RATINGS AND CHARACTERISTIC CURVES (KBPC600 THRU KBPC610)

FIG.1 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT – PER ELEMNET

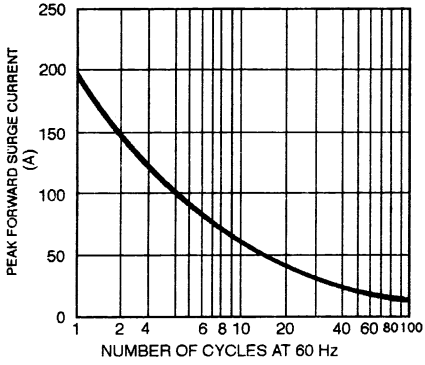

FIG.2 – TYPICAL FORWARD CURRENT DERATING CURVE

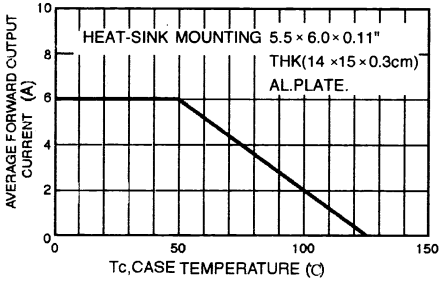

FIG.3 – TYPICAL FORWARD CHARACTERISTICS PER ELEMNET

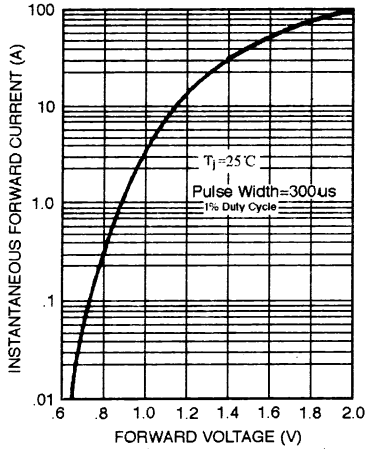

FIG.4 – TYPICAL REVERSE CHARACTERISTICS PER ELEMNET