SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 25.0 Ampere

FEATURES

High forward surge current capability. Low thermal resistance. High isolation voltage from case to lugs. High temperature soldering guaranteed: 260° /10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

Case: Metal case.

Terminal: Plated 0.25" (6.35mm) lug. Polarity: Polarity symbols marked on case. Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max. Weight:1.02 ounce, 29gram.

MAXIMUM RATINGS AND ELECTRICAL

CHARACTERISTICS

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

For capacitive load derate current by 20%										
PARAMETER		SYMBOL	KBPC 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	UNIT
Maximum Repetitive Peak Revere 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		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=50°C (Note1, 2)		I(AV)	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	300							Amps
Rating for Fusing(t<8.3ms)		I2T	373							A ² s
Maximum Instantaneous Forward Voltage at12.5A		VF	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	Ta=25℃	- I _R	5.0							µAmps
	Ta=125℃		0.5							mAmps
Isolation Voltage from case to lugs		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1,2)		Rejl	2.0							
Operating Temperature Range		TJ	-65 to +150							°C
Storage Temperature Range		Tstg	-65 to +150							°C
4	o" o =" (o" () ;			<i>c</i>						•

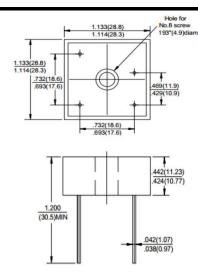
1- Unit mounted on 9"×3.5"×4.6" thick (23×9×11.8mm) Al. finned plate.

2- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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KBPC-W



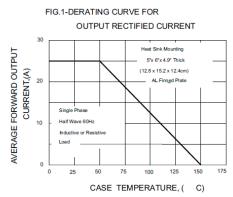
KBPC25005W THRU

KBPC2510W

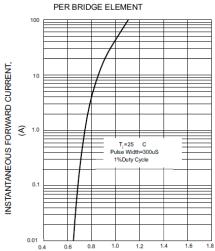
Dimensions in inches and (millimeters)

R

RATINGS AND CHARACTERISTIC CURVES







INSTANTANEOUS FORWARD VOLTAGE,(V)

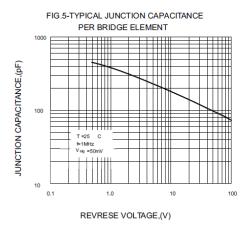


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

KBPC25005W KBPC2510W

THRU

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

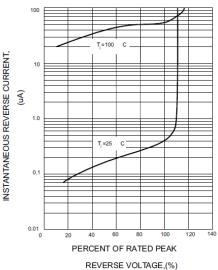
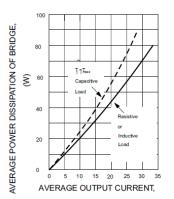


FIG.6-MAXIMUM POWER DISSIPATION



Note: Specifications are subject to change without notice.

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