



## KBPC15, 25, 35 SERIES

**HIGH CURRENT 15, 25, 35 AMPS SINGLE PHASE  
GLASS PASSIVATED BRIDGE RECTIFIERS**



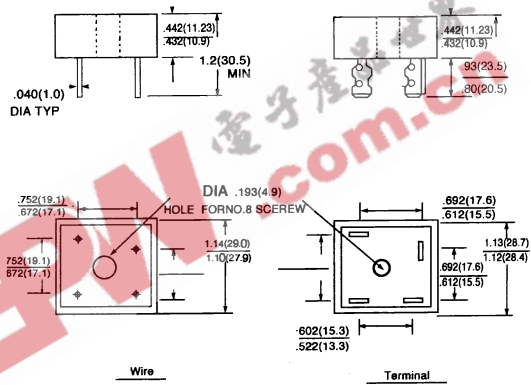
**VOLTAGE RANGE**  
50 to 1000 Volts  
**CURRENT**  
15.0/25.0/35.0 Amperes

### FEATURES

- \* Metal case with an electrically isolated mylar
- \* Rating to 1,000V PRV
- \* High efficiency
- \* Mounting: thru hole for # 10 screw
- \* High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3 kg) tension
- \* Terminals solderables per MIL – STD – 202. method 208
- \* Isolated voltage from case to lead over 2000 volts

### KBPC-W

### KBPC



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	-00G	-01G	-02G	-04G	-06G	-08G	-10G	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS 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 Output Current @ $T_C = 55^\circ\text{C}$ (See Fig. 1)	$I_{F(AV)}$					15.0			A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$					200			A
Maximum Instantaneous Forward Voltage Drop per Element at Specified Current	$V_F$	KBPC15 7.5A KBPC25 12.5A KBPC35 17.5A					1.10		
Maximum Reverse DC Current at Rated D. C Blocking Voltage per Element	$I_R$					10.0			$\mu\text{A}$
Typical Thermal Resistance <1>	$R_{\theta JC}$					2.0			$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$					-50 to +150			$^\circ\text{C}$

- Notes: 1. Thermal Resistance from Junction to Case Per leg.  
2. Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 10 screw  
3. Suffix "W" – Wire Lead Structure.



**RATINGS AND CHARACTERISTIC CURVES** (KBPC1500G KBPC1510G  
KMPC2500G THRU KBPC2510G)  
KBPC3500G KBPC3510G

FIG.1 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

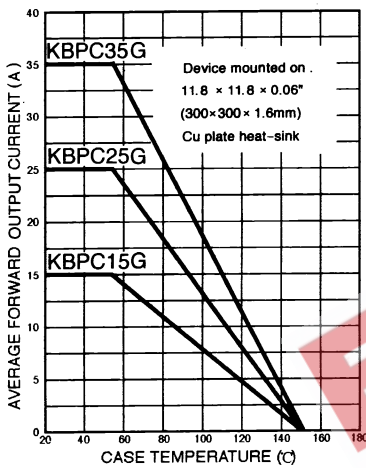


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT - PER ELEMENT

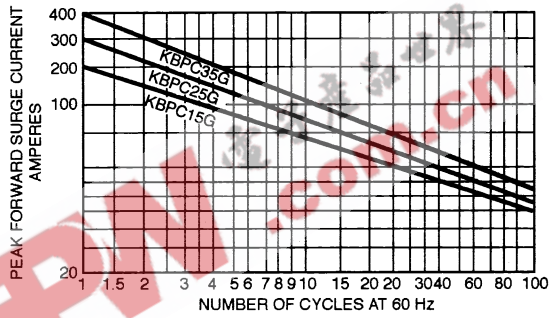


FIG.3 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

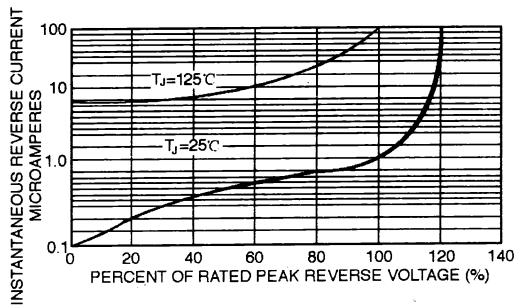


FIG.4 - TYPICAL FORWARD CHARACTERISTICS - PER ELEMENT

