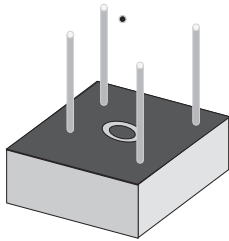


# KBPC25005W THRU KBPC2510W



SINGLE PHASE 25 AMP BRIDGE RECTIFIERS



## FEATURES

- \* Superior thermal design
- \* 300 amperes surge capability
- \* Mounting: Hole thru for #8 screw
- \* Both normal and Pb free product are available:
- \* Normal: 80~95%Sn, 5~20%Pb
- \* Pb free: 99 Sn above can meet Rohs environment substance directive request

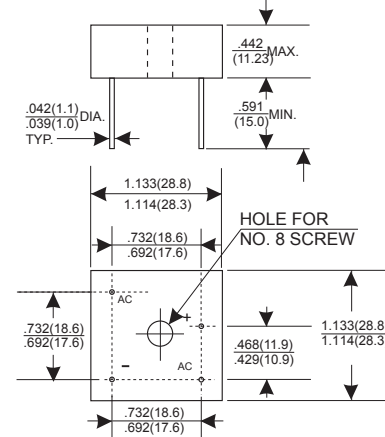
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

25.0 Amperes

### KBPC-W



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	KBPC25005W	KBPC2501W	KBPC2502W	KBPC2504W	KBPC2506W	KBPC2508W	KBPC2510W	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_c=55^\circ\text{C}$								25	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								300	A
Maximum Forward Voltage Drop per Bridge Element at 12.5A D.C.								1.1	V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$								10	$\mu\text{A}$
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$								500	$\mu\text{A}$
Operating Temperature Range, $T_j$								-65 — +125	$^\circ\text{C}$
Storage Temperature Range, $T_{stg}$								-65 — +150	$^\circ\text{C}$

## RATING AND CHARACTERISTIC CURVES (KBPC25005W THRU KBPC2510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

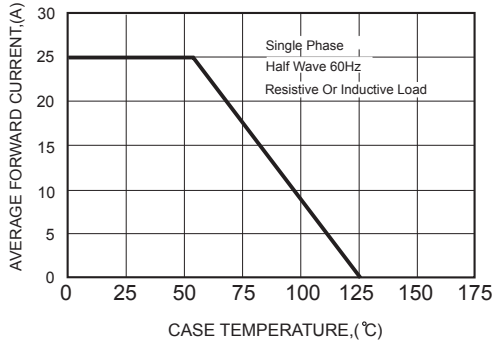


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

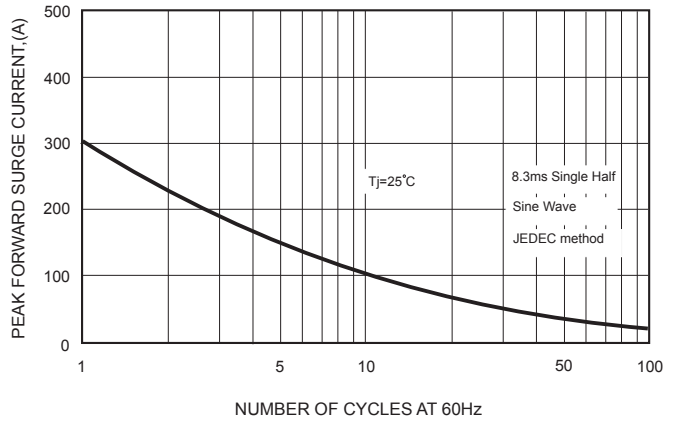


FIG.3-TYPICAL FORWARD CHARACTERISTICS

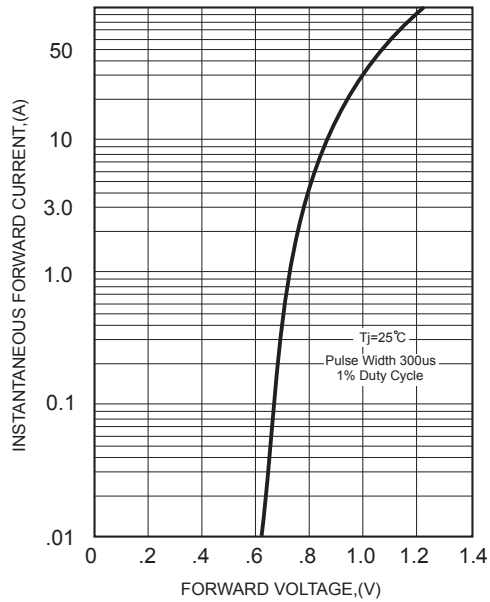


FIG.4-TYPICAL REVERSE CHARACTERISTICS

