

# KBPC35005GT/W THRU KBPC3510GT/W

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

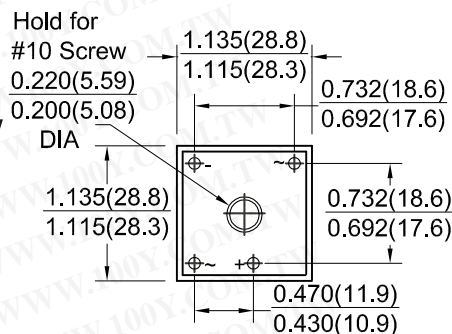
### FEATURES:

- High efficiency
- Glass passivated chip junction
- Electrically Isolated Metal case for maximum heat dissipation
- Rating to 1000 V PRV

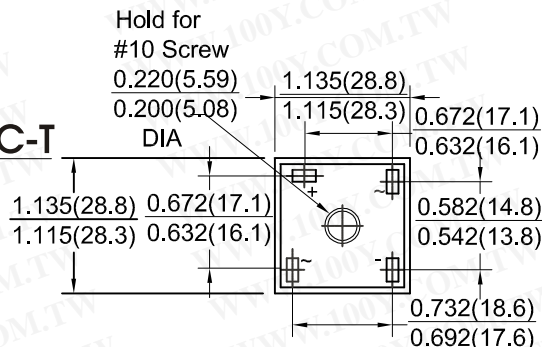
### MECHANICAL DATA

**Case :** Mounted in the bridge encapsulation  
**Polarity :** As marked on case  
**Mounting :** Hole for #10 screw

**KBPC-W**



**KBPC-T**



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

Characteristic	Symbol	KBPC							Units
		35005 GT/W	3501 GT/W	3502 GT/W	3504 GT/W	3506 GT/W	3508 GT/W	3510 GT/W	
		Marking KBPC 35005G	KBPC 3501G	KBPC 3502G	KBPC 3504G	KBPC 3506G	KBPC 3508G	KBPC 3510G	
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 $T_c=55^\circ C$	$I_o$	35							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) Per leg	$I_{FSM}$	400							Amps
Maximum instantaneous forward voltage Per leg $I_F=17.5A$	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage Per leg $T_c=25^\circ C$ $T_c=125^\circ C$	$I_R$	5.0 500							$\mu A$
Typical thermal resistance (NOTE1)	$R_{th-JC}$	1.4							$^\circ C/W$
Typical junction capacitance(NOTE2)	$C_J$	300							Pf
Operating junction and Storage temperature range	$T_J, T_{stg}$	-55to +150							$^\circ C$

**NOTES:**

(1) Device mounted on 300mm x 300mm x 1.6mm cu Plate Heaksink

(2) Measured at 1MHZ and applied reverse voltage of 4.0VD.C.

# RATINGS AND CHARACTERISTIC CURVES KBPC35005GT/W THRU KBPC3510GT/W

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

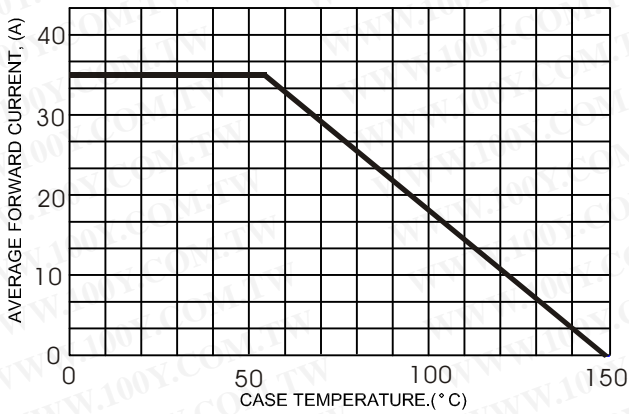


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

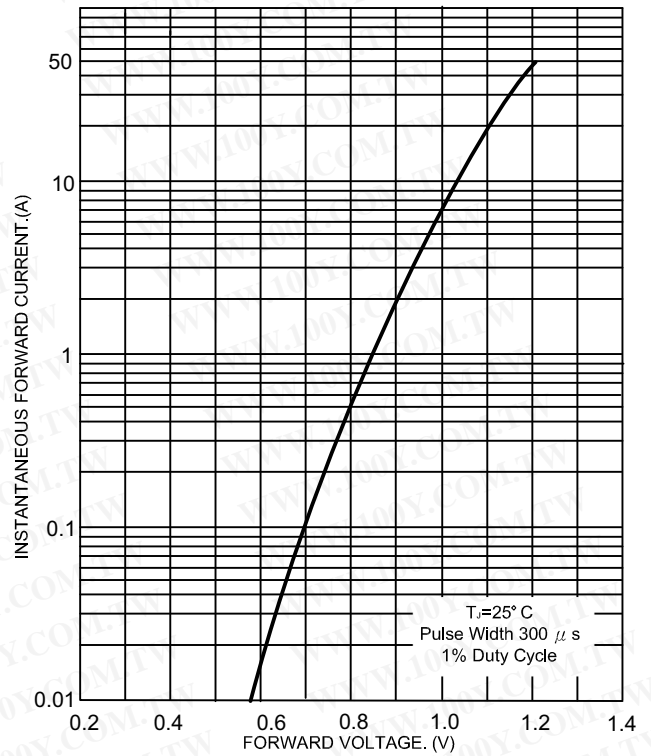
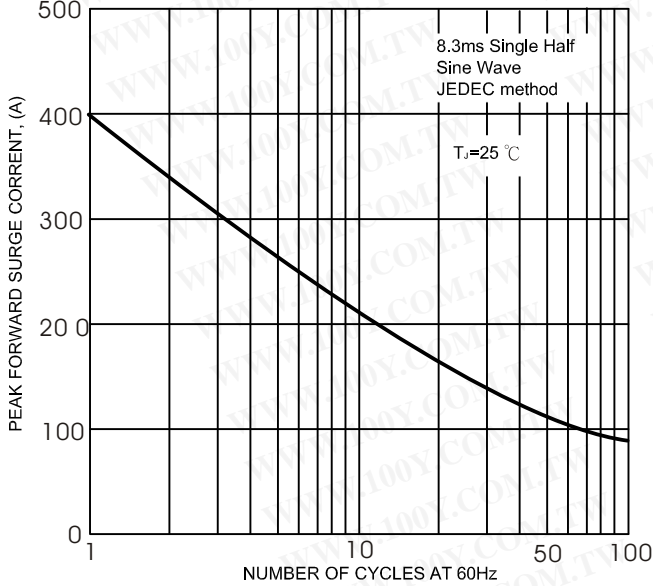


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5- TYPICAL REVERSE CHARACTERISTICS

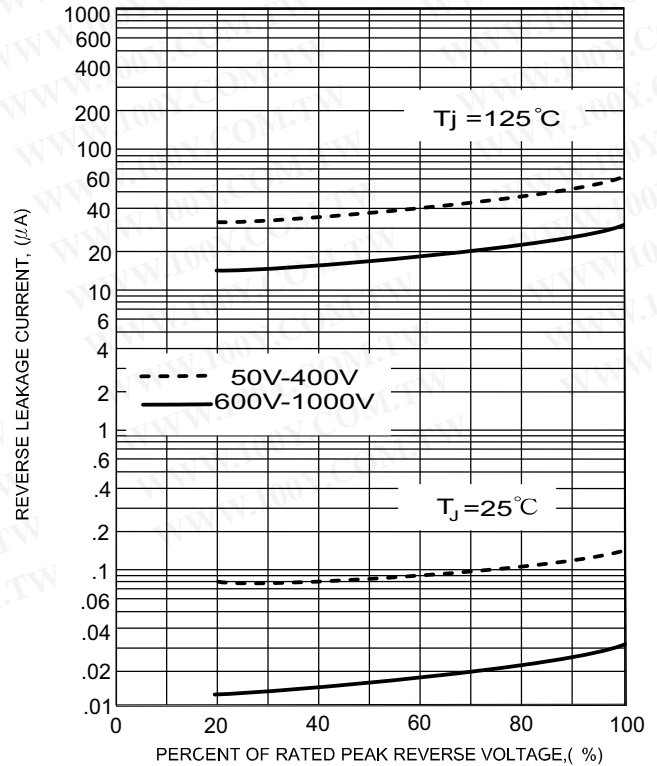
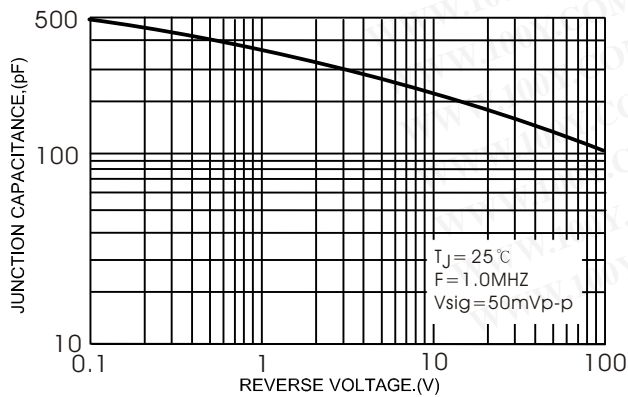


FIG.4- TYPICAL JUNCTION CAPACITANCE



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