

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts
FORWARD CURRENT - **35** Amperes

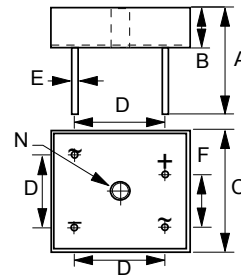
FEATURES

- Rating to 1000V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- UL recognized file # E95060

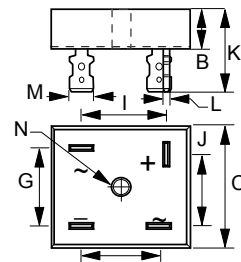
MECHANICAL DATA

- Case : Mounted in the bridge encapsulation
- Polarity : As marked on case
- Mounting : Hole for # 10 screw
- Weight : 0.85 ounces , 24.0 grams (terminal)
: 0.74 ounces , 21.0 grams (wire)

KBPC-GW (Wire)



KBPC-G (Terminal)



KBPC-G/KBPC-GW		
DIM.	MIN.	MAX.
A	31.80	-
B	7.90	8.40
C	28.30	28.80
D	17.60	18.60
E	0.97	1.07
F	10.90	11.90
G	17.60	18.60
H	13.80	14.80
I	16.10	17.10
J	16.10	17.10
K	18.80	21.30
L	0.76	0.86
M	6.30	6.50
N	HOLE FOR NO. 10 SCREW	
	5.08	5.59

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBPC35005G/W	KBPC3501G/W	KBPC3502G/W	KBPC3504G/W	KBPC3506G/W	KBPC3508G/W	KBPC3510G/W	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc = Ta	I(AV)	35.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	400							A
Maximum forward Voltage at 17.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj = 25°C @Tj = 125°C	IR	5.0 500							uA
I ² t Rating for fusing (t < 8.3ms), (Note 1)	I ² t	660							A ² S
Typical Junction Capacitance per element (Note 2)	CJ	300							pF
Typical Thermal Resistance (Note 3, see Fig.1)	RθJC	3.0							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES : 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

REV. 4, Sep-2010, KBDI03

FIG.1 - FORWARD CURRENT DERATING CURVE

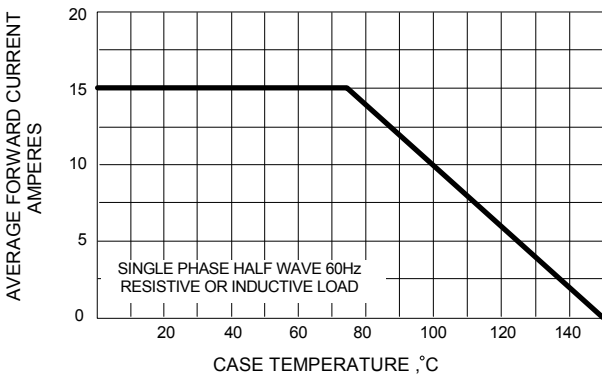


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

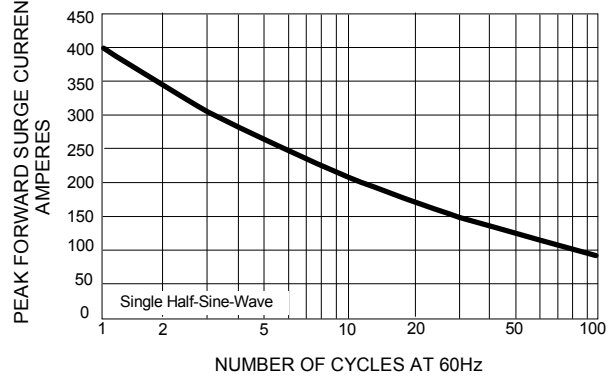


FIG.3 - TYPICAL JUNCTION CAPACITANCE

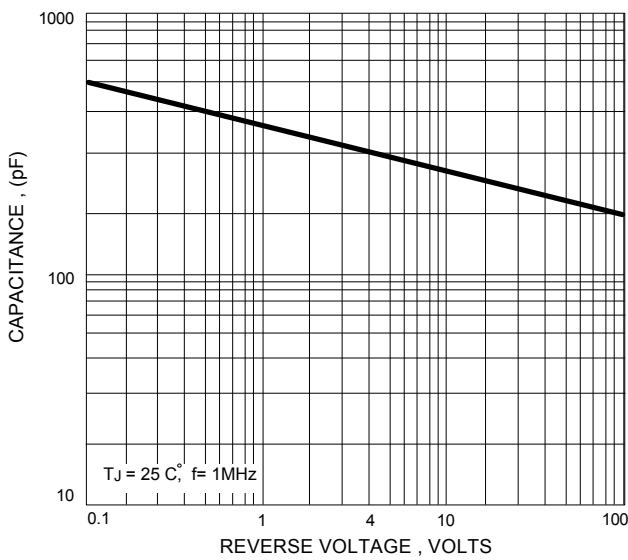


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

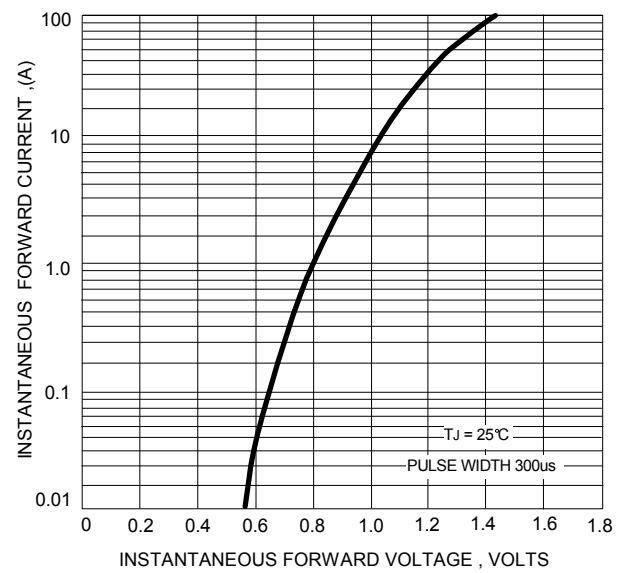
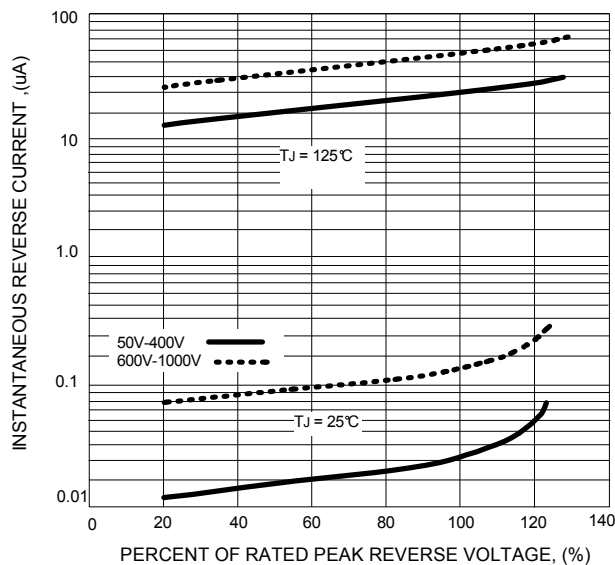


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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