

## KBPC25005G(W) thru 2510G(W)

#### **GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 25 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**

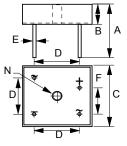
• Case : Mounted in the bridge encapsulation

Mounting : Hole for # 10 screwPoarity : As marked on case

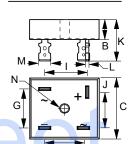
• Weight: 0.85 ounces, 24.0 grams (terminal)

: 0.74 ounces , 21.0 grams (wire)

# KBPC-GW (Wire)



KBPC-G (Terminal)



KBPC-G/KBPC-GW							
DIM.	MIN.	IIN.   MAX.					
Α	31.80	-					
В	7.90	8.40					
С	28.30	28.80					
D	17.60	18.60					
Е	0.97	1.07					
F	10.90	11.90					
G	17.60	18.60					
Н	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.

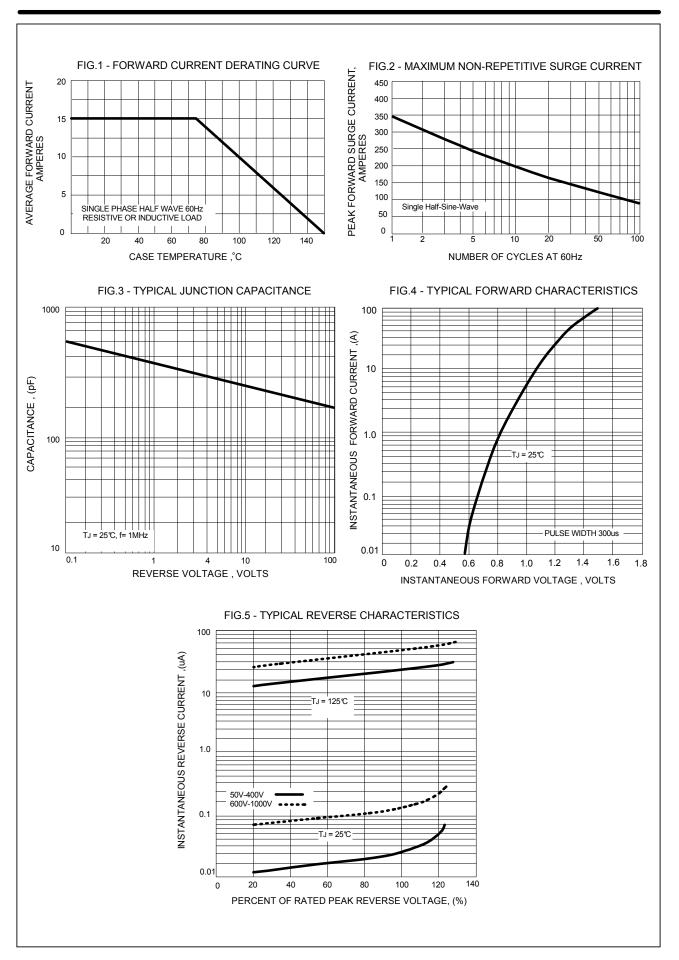
CHARACTERISTICS	SYMBOL	KBPC25 005G/W	KBPC25 01G/W	KBPC25 02G/W	KBPC25 04G/W	KBPC25 06G/W	KBPC25 08G/W	KBPC25 10G/W	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc =Ta	I(AV)	25.0						Α	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	350							А
Maximum forward Voltage at 12.5A DC	VF				1.1				V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C	lR	5.0 500							uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms), (Note 1)	l <sup>2</sup> t				508				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 2)	Сл				300				pF
Typical Thermal Resistance (Note 3)	Rejc				3.0				°C/W
Operating Temperature Range	TJ			-	55 to +150	)			°C
Storage Temperature Range	Тѕтс			_	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, KBDI02







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