

# **KBPC15, 25, 35G/W SERIES**

# 15, 25, 35A GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- **Glass Passivated Die Construction**
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Epoxy Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V

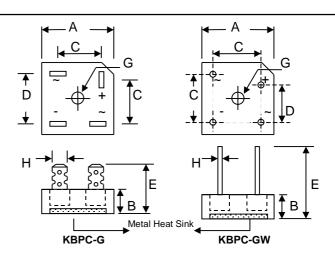
#### **Mechanical Data**

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
  - KBPC-G 24 grams (approx.) **KBPC-GW**
- Marking: Type Number

Weight:

21 grams (approx.)

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals \*All Models are Available on B(Height)=7.9mm Max. Epoxy Case



	KBF	°C-G	KBPC-GW		
Dim	Min	Max	Min	Max	
Α	28.40	28.70	28.40	28.70	
В	10.97	11.23	10.97	11.23	
С	15.70	16.70	17.10	19.10	
D	17.50	18.50	10.90	11.90	
E	22.86	25.40	30.50	_	
G	G Hole for #10 screw, 5.08Ø Nominal				
Н	6.35 Typical		0.97Ø	1.07Ø	
All Dimension in mm					

### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteris	tics		Symbol	-00G/W	-01G/W	-02G/W	-04G/W	-06G/W	-08G/W	-10G/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V	
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V	
Average Rectifier Output Current KBPC15 @T <sub>c</sub> = 55°C KBPC35		ю	15 25 35						A		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)		IFSM	300 300 400						A		
Forward Voltage Drop (per element) $\begin{array}{l} KBPC15 @ I_{F} = 7.5A \\ KBPC25 @ I_{F} = 12.5A \\ KBPC35 @ I_{F} = 17.5A \end{array}$		Vгм	1.1						V		
Peark Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$		lгм	5.0 500						μA		
I <sup>2</sup> t Rating for Fusing (t < 8.3ms (Note 1)	) ł	(BPC15 (BPC25 (BPC35	l <sup>2</sup> t				375 375 660				A²s

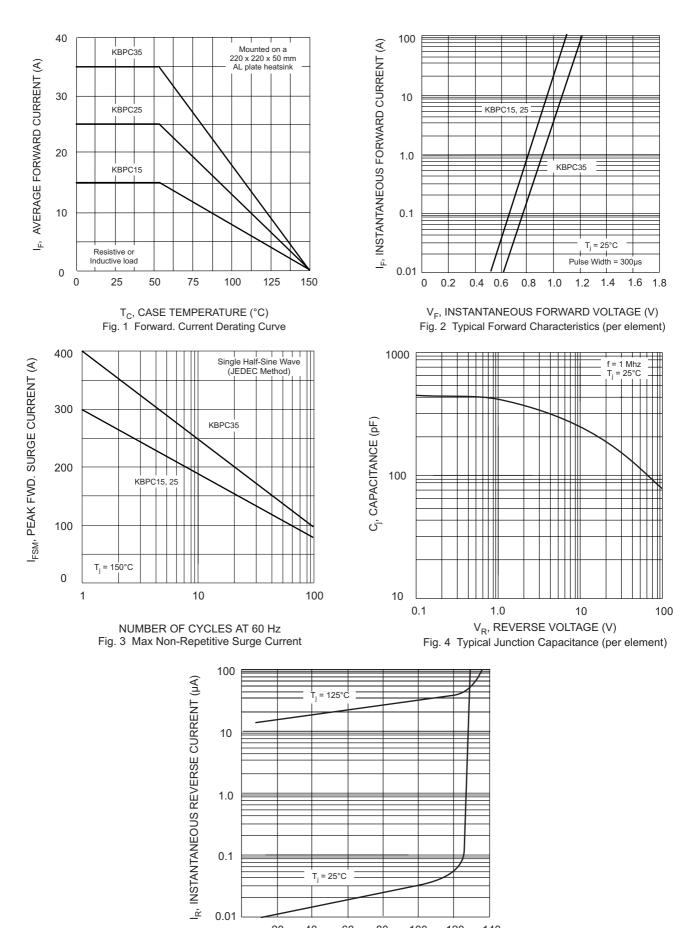
## Maximum Ratings and Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

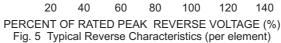
Typical Junction Capacitance (per element) (Note 2)		Cj	300	pF
Typical Thermal Resistance Junction to Case (per element) (Note 3)	KBPC15 KBPC25 KBPC35	R∂JC	5.3 3.6 3.0	K/W
RMS Isolation Voltage from Case to Lead		Viso	2500	V
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150	°C

Note: 1. Measured at non-repetitive, for t > 1ms and < 8.3ms.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance junction to case mounted on heatsink.





Product No.	Package Type	Shipping Quantity
KBPCxx00G	Square Bridge	50 Units/Box
KBPCxx00GW	Square Bridge	50 Units/Box
KBPCxx01G	Square Bridge	50 Units/Box
KBPCxx01GW	Square Bridge	50 Units/Box
KBPCxx02G	Square Bridge	50 Units/Box
KBPCxx02GW	Square Bridge	50 Units/Box
KBPCxx04G	Square Bridge	50 Units/Box
KBPCxx04GW	Square Bridge	50 Units/Box
KBPCxx06G	Square Bridge	50 Units/Box
KBPCxx06GW	Square Bridge	50 Units/Box
KBPCxx08G	Square Bridge	50 Units/Box
KBPCxx08GW	Square Bridge	50 Units/Box
KBPCxx10G	Square Bridge	50 Units/Box
KBPCxx10GW	Square Bridge	50 Units/Box

#### ORDERING INFORMATION

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.