

KBPC15, 25, 35/W SERIES

15, 25, 35A HIGH CURRENT BRIDGE RECTIFIER

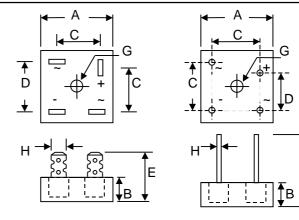
Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- UL Recognized File # E157705

Mechanical Data

- Case: Metal Case with Electrically Isolated Epoxy
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Weight: KBPC 31.6 grams (approx.) KBPC-W 28.5 grams (approx.)
- Marking: Type Number

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals



KBPC

KBPC-W

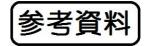
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	KBPC		KBPC-W				
Dim	Min	Мах	Min	Мах			
Α	28.40	28.70	28.40	28.70			
В	10.97	11.23	10.97	11.23			
С	15.70	16.70	17.10	19.10			
D	17.50	18.50	10.90	11.90			
E	22.86	25.40	30.50				
G	Hole for #10 screw, 5.08Ø Nominal						
Н	6.35 T	ypical	0.97Ø	1.07Ø			
All Dimension in mm							

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

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

Characteristics	Symbol	-00/W	-01/W	-02/W	-04/W	-06/W	-08/W	-10/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
erage Rectifier Output Current $\begin{array}{c} KBPC15\\ KBPC25\\ KBPC35\end{array}$ Io KBPC35		15 25 35						A	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	IFSM	300 400 400					A		
Forward Voltage Drop (per element) $\begin{array}{l} \text{KBPC15 } @I_F = 7.5\text{A} \\ \text{KBPC25 } @I_F = 12.5\text{A} \\ \text{KBPC35 } @I_F = 17.5\text{A} \end{array}$	Vfm	1.2					V		
Peark Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	IRM	10 1.0							μA mA
I ² t Rating for Fusing (t < 8.3ms) (Note 1) KBPC25 KBPC35	l ² t	373 373 664			A²s				



Maximum Ratings and Electrical Characteristics @T_A=25°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	RθJC	6.3 3.8 2.7	K/W
RMS Isolation Voltage from Case to Lead	Viso	2500	V
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150	°C

* Glass passivated forms are available upon request.

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.