

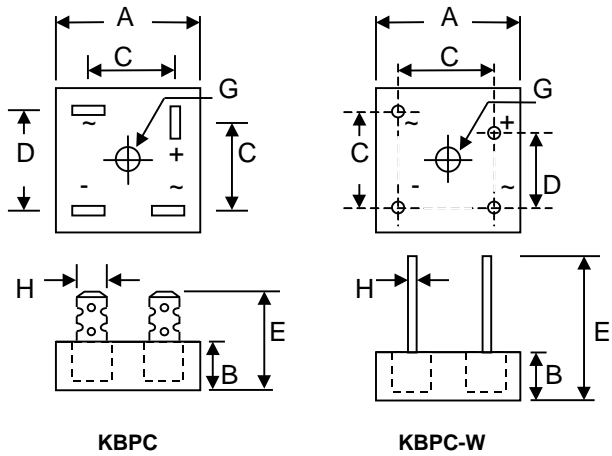
### Features

- 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



Dim	KBPC		KBPC-W	
	Min	Max	Min	Max
A	28.40	28.70	28.40	28.70
B	10.97	11.23	10.97	11.23
C	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			
H	6.35 Typical		0.97Ø	1.07Ø
All Dimension in mm				

### Maximum Ratings and Electrical Characteristics @<sub>T<sub>A</sub></sub>=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	$V_{RRM}$								V
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Output Current @ <sub>T<sub>C</sub></sub> = 60°C	$I_O$				15 25 35				A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	$I_{FSM}$				300 400 400				A
Forward Voltage Drop (per element)	$V_{FM}$				1.2				V
Peak Reverse Current At Rated DC Blocking Voltage	$I_{RM}$				10 1.0				$\mu A$ mA
$I^2t$ Rating for Fusing (t < 8.3ms) (Note 1)	$I^2t$				373 373 664				A <sup>2</sup> s

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

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Typical Junction Capacitance (per element) (Note 2)	$C_j$	300	pF
Typical Thermal Resistance Junction to Case (per element) (Note 3)	$R_{\theta JC}$	KBPC15 6.3	K/W
		KBPC25 3.8	
		KBPC35 2.7	
RMS Isolation Voltage from Case to Lead	$V_{ISO}$	2500	V
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^{\circ}\text{C}$

\* Glass passivated forms are available upon request.

- Note:
1. Measured at non-repetitive, for  $t > 1\text{ms}$  and  $< 8.3\text{ms}$ .
  2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
  3. Thermal resistance junction to case mounted on heatsink.