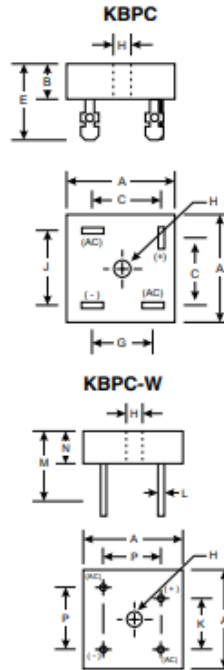


### Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 400A Peak
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 1500V
- UL Listed: Recognized Component Index, File Number E95060

### Mechanical Data

- Case: High Conductivity Metal
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- Weight: KBPC 31.6 grams (approx)
- KBPC-W 28.5 grams (approx)
- Mounting Position: Any
- Marking: Type Number



KBPC / KBPC-W		
Dim	Min	Max
A	28.40	28.70
B	10.97	11.23
C	15.50	17.60
E	22.86	25.40
G	13.30	15.30
H	Hole for #10 screw	
	4.85∅	5.59∅
J	17.10	19.10
K	10.40	12.40
L	0.97∅	1.07∅
M	30.50	—
N	10.97	11.23
P	17.10	19.10
All Dimensions in mm		

"W" Suffix Designates Wire Leads  
No Suffix Designates Fast-on Terminals

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	KBPC35005/W	KBPC3501/W	KBPC3502/W	KBPC3504/W	KBPC3506/W	KBPC3508/W	KBPC3510/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T <sub>C</sub> = 55°C	I <sub>O</sub>	35							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400							A
Forward Voltage (per element) @ I <sub>F</sub> = 17.5A	V <sub>FM</sub>	1.2							V
Peak Reverse Current @ T <sub>C</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>C</sub> = 125°C	I <sub>RM</sub>	10 1.0							μA mA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms) (Note 3)	I <sup>2</sup> t	664							A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	300							pF
Typical Thermal Resistance Junction to Case	R <sub>θJC</sub>	2.7							K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150							°C