

# KBPC15005 SERIES

## SINGLE PHASE BRIDGE RECTIFIER

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

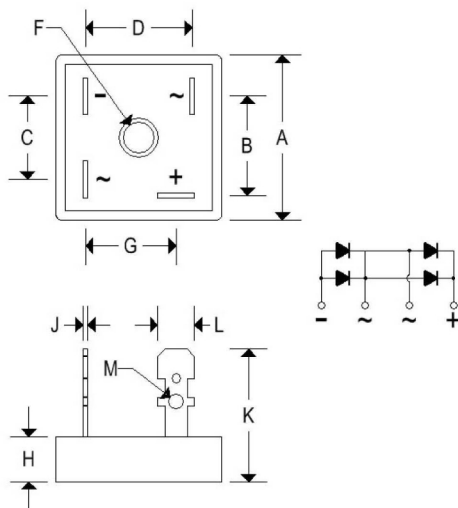
Rating	Symbol	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum average forward output rectified current at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	15							Amps
Peak forward surge current single half-sine wave superimposed on rated load	$I_{FSM}$	300							Amps
Operating temperature range	$T_C$	-55 to +125							$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to +150							$^\circ\text{C}$
Typical junction capacitance	$C_j$	300							pF

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	Units
Maximum forward voltage drop per element @ 7.5 peak	$V_F$	1.2							Volts
Maximum reverse current at rated DC blocking voltage per element $T_A = 25^\circ\text{C}$	$I_R$	1.0							$\mu\text{A}$

### MECHANICAL CHARACTERISTICS

Case	Digi R
Marking	Body painted, alpha-numeric
Pin out	See below



	Digi R			
	Inches		Millimeters	
	Min	Max	Min	Max
A	1.120	1.135	28.400	28.829
B	0.618	0.685	15.700	16.700
C	0.530	0.580	13.400	14.732
D	0.688	0.728	17.400	18.500
F	0.200	0.220	5.100	5.588
G	0.618	0.658	15.700	16.700
H	0.425	0.440	10.795	11.176
J	0.028	0.032	0.710	0.810
K	0.826	0.905	21.000	23.000
L	0.240	0.260	6.096	6.604
M	0.090	0.100	2.300	2.500

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