

High Current Bridge Rectifier

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KBPC Series

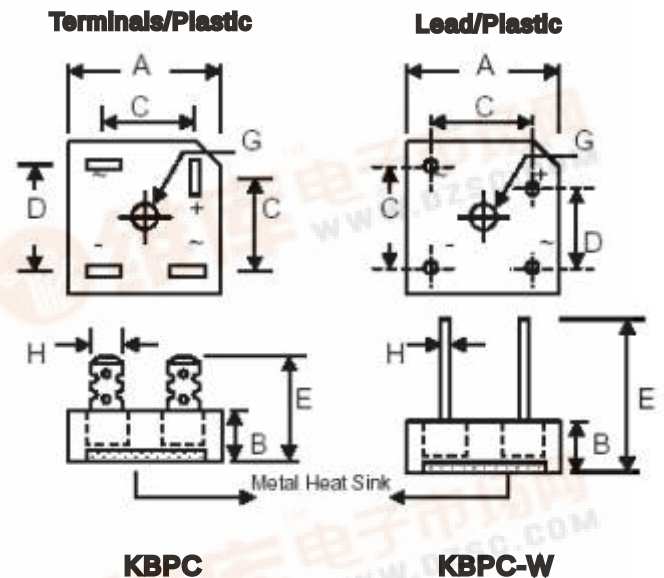
Reverse Voltage: 50 - 1000 Volts
Forward Current: 10/15/25/35/50 Amp

Features

- Surge overload 200 - 400 Amp peak
- Low forward voltage dro
- Mounting position: Any
- Electrically isolated base - 1800 Volts
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition

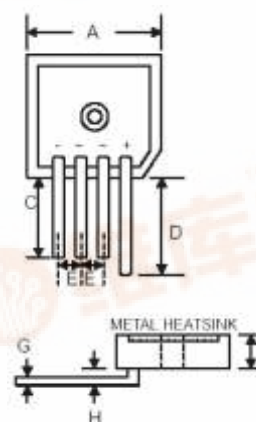
Mechanical Data

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Mounting: Through Hole for #10 Screw
- Weight: 30 grams (approx.)



Dim	TERMINALS		LEAD	
	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				

Single In-Line/Plastic



KBPC-S		
Dim	Min	Max
A	28.40	28.70
B	10.97	11.23
C	13.90	-
D	19.10	-
E	5.10	-
G	1.20 Ø Typical	
H	3.05	3.60
All Dimensions in mm		

KBPC-S

- "S" Suffix Designates Single In-Line
- "W" Suffix Designates Wire Leads
- No Suffix Designates Faston Terminals

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	UNIT
	10005	1001	1002	1004	1006	1008	1010	
	15005	1501	1502	1504	1506	1508	1510	
	25005	2501	2502	2504	2506	2508	2510	
	35005	3501	3502	3504	3506	3508	3510	
	50005	5001	5002	5004	5006	5008	5010	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Forward Voltage Drop per element at 5.0/7.5/12.5/17.5/25.0A Peak	1.2							V
Maximum Reverse Current at Rate DC Blocking Voltage per element @ T _A = 25°C	10							uA
Operating Temperature Range T _C	-55 to +125							°C
Storage Temperature Range T _A	-55 to +150							°C

Maximum Ratings and Electrical Characteristics

CHARACTERISTICS	KBPC10005 - 1010	KBPC15005 - 1510	KBPC25005 - 2510	KBPC35005 - 3510	KBPC50005 - 5010	UNIT
Maximum Average Forward Rectified Output Current @ T _C = 55°C	10	15	25	35	50	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	200	300	300	400	400	A

NOTES: Also available on KBPC 10W/15W/25W/35W/50W series.

Rating and Characteristic Curves (KBPC10, 15, 25, 35, 50)

Fig. 1 - Reverse Characteristics

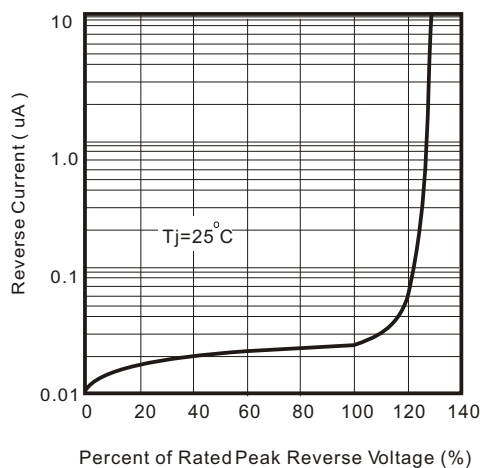


Fig. 2 - Forward Characteristics

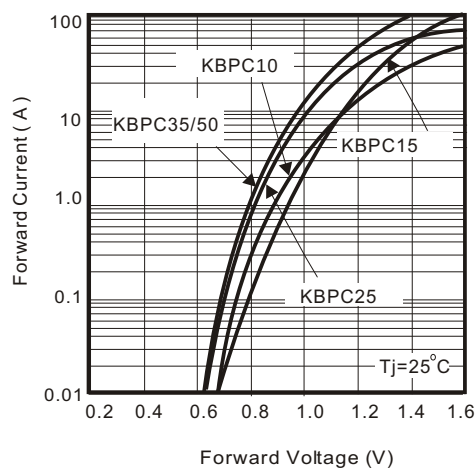


Fig. 3 - Non Repetitive Forward Surge Current

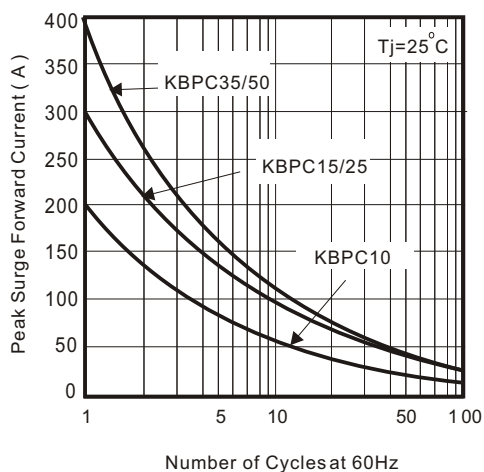


Fig. 4 - Current Derating Curve

