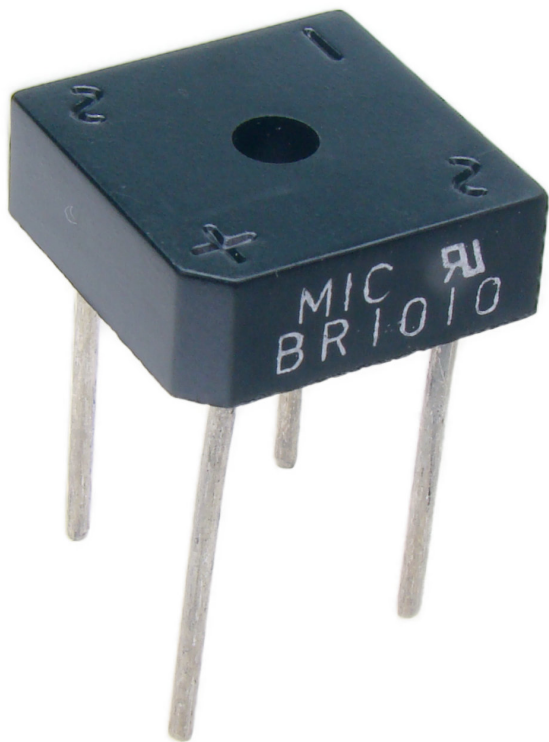




# Mostek KBPC1010/BR1010 (10A/1000V) MIC kwadratowy pinowy RoHS



## Dane techniczne:

Nazwa: KBPC1010/BR1010

Typ elementu półprzewodnikowego: mostek prostowniczy

Napięcie wsteczne maksymalne: 1000V

Prąd przewodzenia: 10A

Wersja: kwadratowy pinowy

Montaż elektryczny: THT

# KBPC1000/W – KBPC1010/W

## 10A HIGH CURRENT BRIDGE RECTIFIER

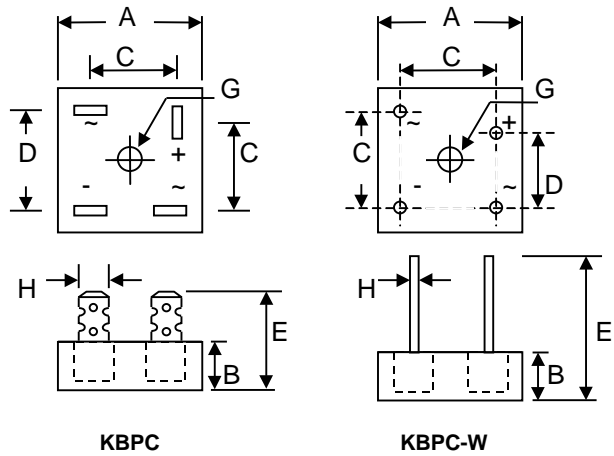
### Features

- 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



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
<b>All Dimension in mm</b>				

### 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%.

Characteristic	Symbol	KBPC 1000/W	KBPC 1001/W	KBPC 1002/W	KBPC 1004/W	KBPC 1006/W	KBPC 1008/W	KBPC 1010/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 @ <sub>T<sub>A</sub></sub> = 50°C	I <sub>O</sub>	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	200							A
Forward Voltage (per element) @ <sub>I<sub>F</sub></sub> = 5.0A	V <sub>FM</sub>	1.2							V
Peak Reverse Current @ <sub>T<sub>C</sub></sub> = 25°C At Rated DC Blocking Voltage @ <sub>T<sub>C</sub></sub> = 125°C	I <sub>RM</sub>	10 1.0							µA mA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	300							pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	6.3							K/W
RMS Isolation Voltage from Case to Lead	V <sub>ISO</sub>	2500							V
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150							°C

\* Glass passivated forms are available upon request.

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
2. Thermal resistance junction to case per element mounted on heatsink.

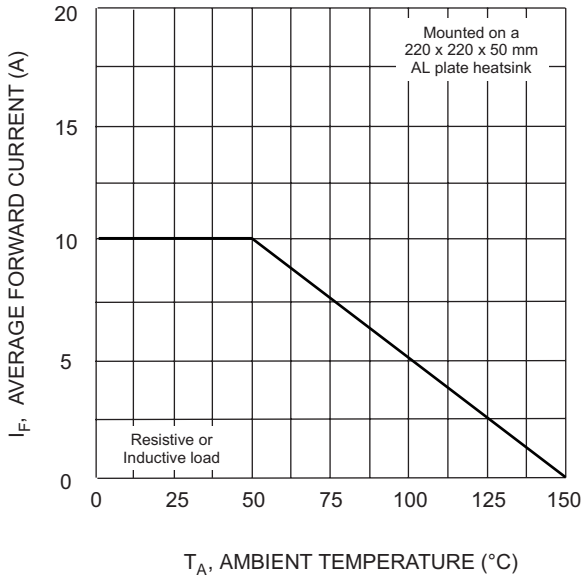


Fig. 1 Forward Current Derating Curve

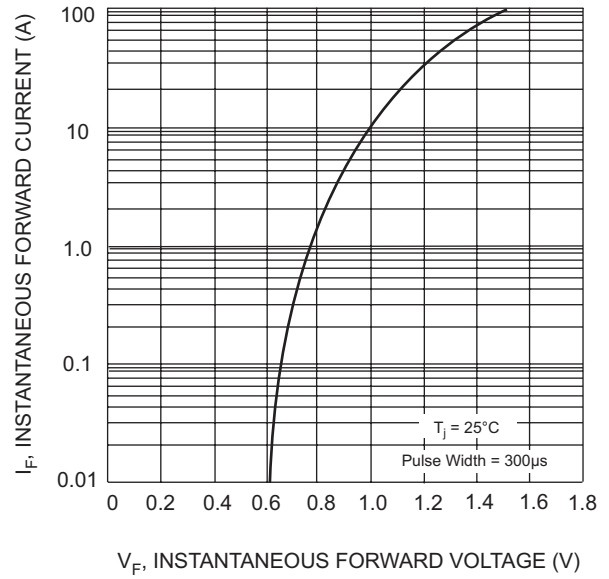


Fig. 2 Typical Forward Characteristics (per element)

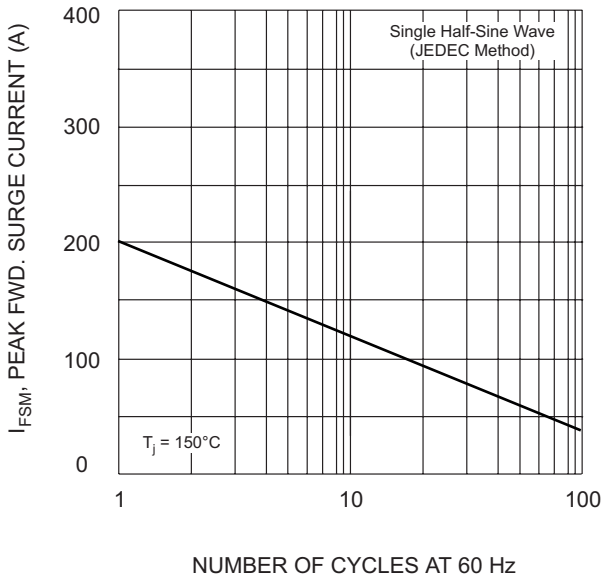


Fig. 3 Max Non-Repetitive Surge Current

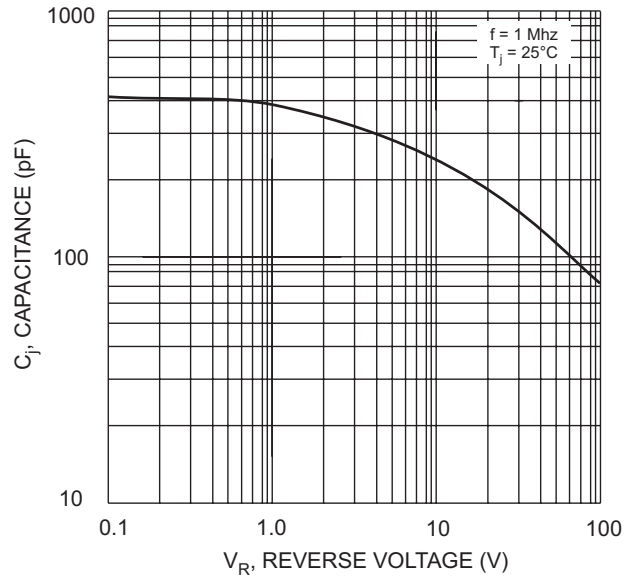


Fig. 4 Typical Junction Capacitance (per element)

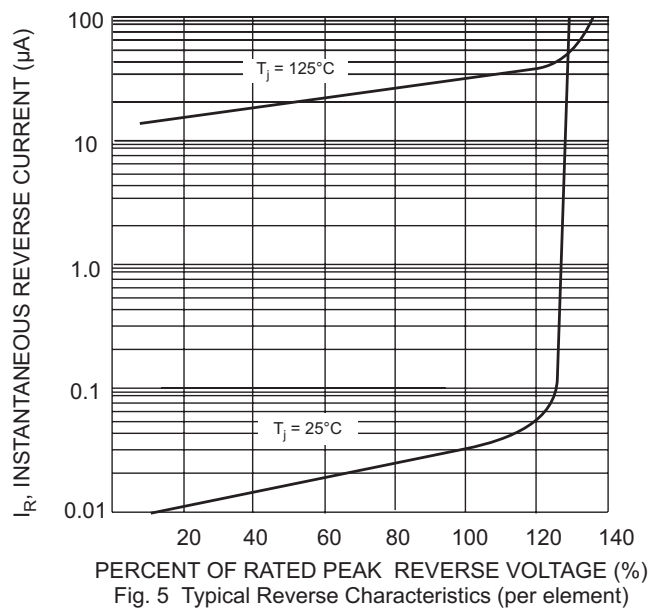


Fig. 5 Typical Reverse Characteristics (per element)

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC1000	Square Bridge	50 Units/Box
KBPC1000W	Square Bridge	50 Units/Box
KBPC1001	Square Bridge	50 Units/Box
KBPC1001W	Square Bridge	50 Units/Box
KBPC1002	Square Bridge	50 Units/Box
KBPC1002W	Square Bridge	50 Units/Box
KBPC1004	Square Bridge	50 Units/Box
KBPC1004W	Square Bridge	50 Units/Box
KBPC1006	Square Bridge	50 Units/Box
KBPC1006W	Square Bridge	50 Units/Box
KBPC1008	Square Bridge	50 Units/Box
KBPC1008W	Square Bridge	50 Units/Box
KBPC1010	Square Bridge	50 Units/Box
KBPC1010W	Square Bridge	50 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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