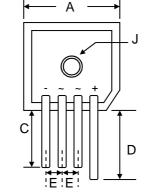


10A SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Designed for Saving Mounting Space
- Recognized File # E157705



KBPC-S					
Dim	Min	Max			
Α	28.40	28.70			
В	10.97	11.23			
С	_	21.00			
D	_	25.00			
E	5.10	_			
G	1.20 Ø Typical				
Н	3.05	3.60			
J	5.08 Ø Nominal				
All Dimensions in mm					

Mechanical Data

- Case: KBPC-S, Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 21 grams (approx.)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



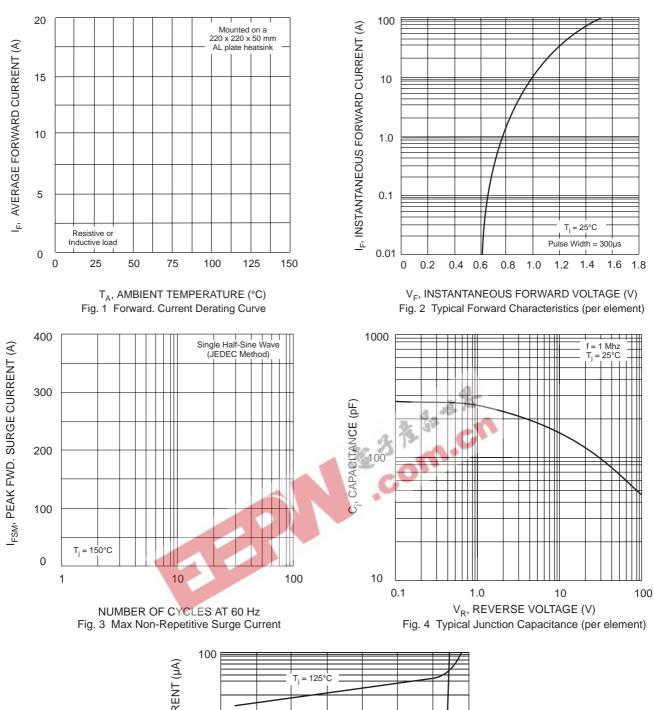
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

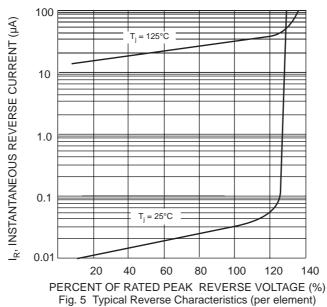
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC10							Unit			
Characteristic	Symbol	00S	01S	02S	04S	06S	08S	10S	12S	148	16S	Onit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T _A = 50°C	lo	10						Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	200					А					
Forward Voltage per leg @I _F = 5.0A	VFM	1.1						V				
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lгм	10 500						μΑ				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	166						A ² s				
Typical Junction Capacitance (Note 1)	Cj	200						pF				
Typical Thermal Resistance per leg (Note 2)	RθJC	3.0					°C/W					
RMS Isolation Voltage from Case to Leads	Viso	2500						V				
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150						°C				

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case, mounted on heatsink.





MARKING INFORMATION

WTE NAME OF THE PROPERTY OF TH

WTE = Manufacturer's Logo KBPC10xxS = Device Number

xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16

Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
195 x 195 x 40	80	405 x 205 x 240	800	17.0

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC1000S	SIL Bridge	80 Units/Box
KBPC1001S	SIL Bridge	80 Units/Box
KBPC1002S	SIL Bridge	80 Units/Box
KBPC1004S	SIL Bridge	80 Units/Box
KBPC1006S	SIL Bridge	80 Units/Box
KBPC1008S	SIL Bridge	80 Units/Box
KBPC1010S	SIL Bridge	80 Units/Box
KBPC1012S	SIL Bridge	80 Units/Box
KBPC1014S	SIL Bridge	80 Units/Box
KBPC1016S	SIL Bridge	80 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum 1. order quantity, please consult the Sales Department.
- 2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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