

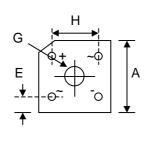
# 8.0A SINGLE-PHASE BRIDGE RECTIFIER

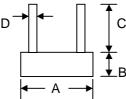
## Features

- Diffused Junction
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has UL Flammability 94V-0
- Recognized File # E157705

### **Mechanical Data**

- Case: KBPC-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Weight: 3.8 grams (approx.)
- Mounting Position: Through Hole for #6 Screw
- Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4





KBPC-6   Dim Min Max   A 14.73 15.75   B 5.80 6.90   C 19.00 —   D 1.00 Ø Typical E   E 1.70 2.72   Hole for #6 screw 250					
A 14.73 15.75   B 5.80 6.90   C 19.00 —   D 1.00 Ø Typical   E 1.70 2.72					
B 5.80 6.90   C 19.00 —   D 1.00 Ø Typical   E 1.70 2.72					
C 19.00 —   D 1.00 Ø Typical   E 1.70 2.72					
D 1.00 Ø Typical   E 1.70 2.72					
<b>E</b> 1.70 2.72					
Hole for #6 screw					
G TIOLE IOI #0 SCIEW					
3.60 4.00					
<b>H</b> 10.30 11.30					
All Dimensions in mm					

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

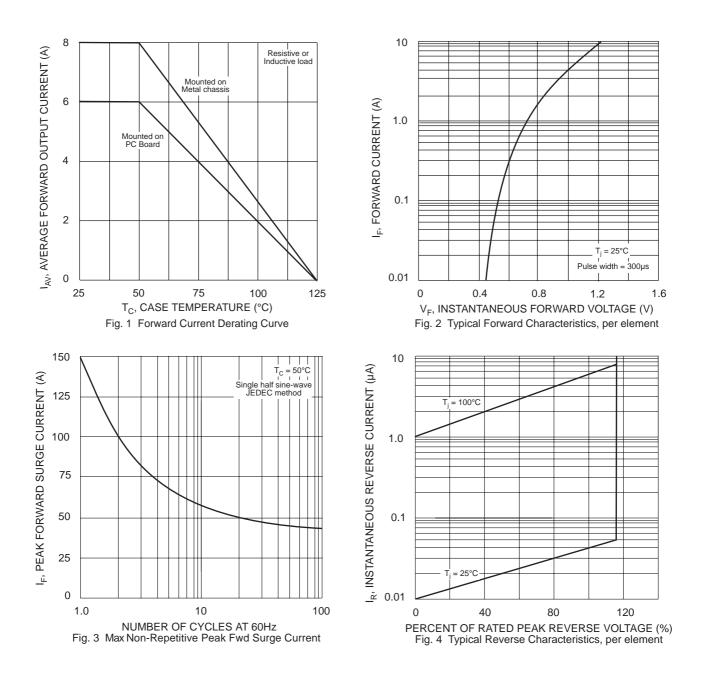
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	KBPC 800S	KBPC 801S	KBPC 802S	KBPC 804S	KBPC 806S	KBPC 808S	KBPC 810S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_c = 5$	50°C	lo				8.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	5	IFSM				150				А
Forward Voltage per leg $@I_F =$	4.0A	Vfm				1.1				V
Peak Reverse Current $@T_A = 2$ At Rated DC Blocking Voltage $@T_A = 12$		lr				5.0 500				μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 2)		l <sup>2</sup> t				127				A <sup>2</sup> s
Typical Junction Capacitance (Note 3)		Cj				100				pF
Typical Thermal Resistance per leg (Note 1)		R				7.5				°C/W
Operating and Storage Temperature Range		Tj, Tstg			-6	65 to +12	25			°C

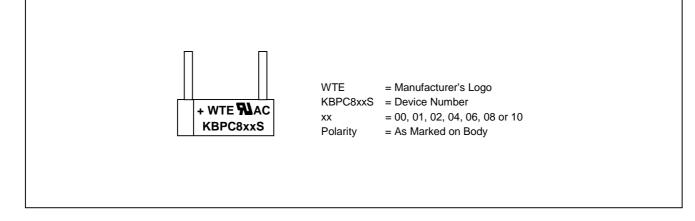
Note: 1. Mounted on metal chassis.

2. Non-repetitive, for t > 1ms and < 8.3ms.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



## MARKING INFORMATION



# PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
198 x 198 x 50	200	425 x 215 x 280	2,000	8.0

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

Product No.	Package Type	Shipping Quantity
KBPC800S	Square Bridge	200 Units/Box
KBPC801S	Square Bridge	200 Units/Box
KBPC802S	Square Bridge	200 Units/Box
KBPC804S	Square Bridge	200 Units/Box
KBPC806S	Square Bridge	200 Units/Box
KBPC808S	Square Bridge	200 Units/Box
KBPC810S	Square Bridge	200 Units/Box

### **ORDERING INFORMATION**

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

 To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC800S-LF.

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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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