

# KBPC800G - KBPC810G

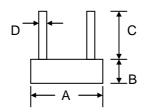


#### 8.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- 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

# G E E E



KBPC-8				
Dim	Min	Max		
Α	18.54	19.56		
В	6.35 7.60			
С	19.00 —			
D	1.27 Ø Typical			
E	5.33 7.37			
G	Hole for #6 screw			
G	3.60	4.00		
Н	12.20	13.80		
All Dimensions in mm				

#### **Mechanical Data**

Case: KBPC-8, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Marked on Body

Weight: 5.4 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

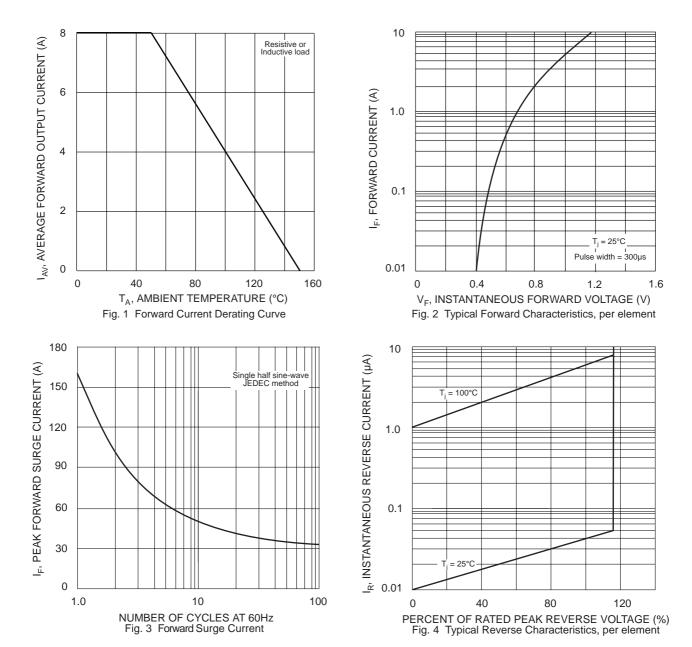
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

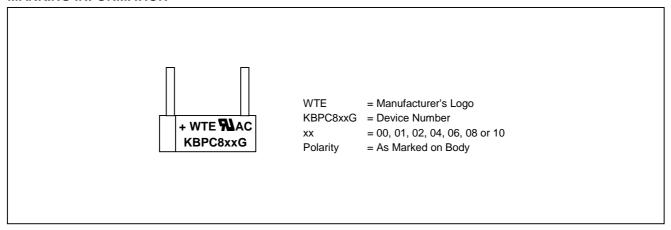
Characteristic		Symbol	KBPC 800G	KBPC 801G	KBPC 802G	KBPC 804G	KBPC 806G	KBPC 808G	KBPC 810G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 50°C		lo	8.0					Α		
Non-Repetitive Peak Forward Surge Cur Single half sine-wave superimposed on r (JEDEC Method)		IFSM				160				А
Forward Voltage per leg	@I <sub>F</sub> = 4.0A	VFM				1.0				V
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 125°C	lR				5.0 500				μΑ
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 2)		l <sup>2</sup> t				160				A <sup>2</sup> s
Typical Junction Capacitance (Note 3)		Cj	200					pF		
Typical Thermal Resistance per leg (Note 1)		RθJC	6.0					°C/W		
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150				°C			

Note: 1. Mounted on 200 x 200 x 6.0mm Al. plate.

- 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 (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
237 x 240 x 52	200	500 x 255 x 275	2,000	14.0

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

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBPC800G	Square Bridge	200 Units/Box
KBPC801G	Square Bridge	200 Units/Box
KBPC802G	Square Bridge	200 Units/Box
KBPC804G	Square Bridge	200 Units/Box
KBPC806G	Square Bridge	200 Units/Box
KBPC808G	Square Bridge	200 Units/Box
KBPC810G	Square Bridge	200 Units/Box

- 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, KBPC800G-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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