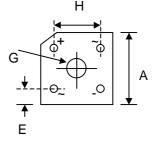


KBPC600 - KBPC610

6.0A 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 Underwriters Laboratory Flammability Classification 94V-O
- UL Recognized File # E157705



KBPC-6						
Dim	Min Max					
Α	14.73	15.75				
В	5.80	6.90				
С	19.00	1				
D	1.00 Ø Typical					
Е	1.70	2.72				
G	Hole for #6 screw					
G	3.60	4.00				
Н	10.30	11.30				
All Dimensions in mm						

Mechanical Data

Case: Molded Plastic

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

Polarity: Marked on BodyWeight: 3.8 grams (approx.)

Mounting Position: Through Hole for #6 Screw
 Mounting Torque: 5.0 Inch-pounds Maximum

Marking: Type Number

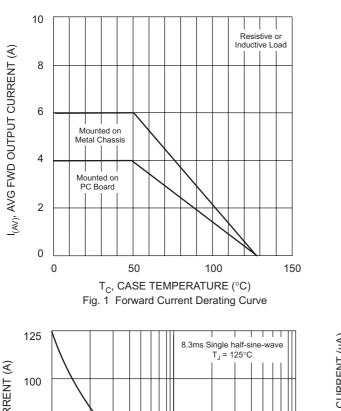
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

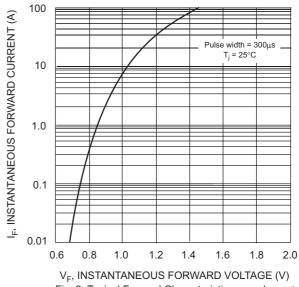
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 600	KPBC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	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 = 50°	C Io	6.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125					А		
Forward Voltage (per element) @I _F = 3.0A	VFM	1.1					V		
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	lR				10 1.0				μA mA
I ² t Rating for Fusing (t<8.3ms) (Note 2)	I ² t	64					A ² s		
Typical Junction Capacitance (Note 3)	Cj	55					pF		
Typical Thermal Resistance (Note 4)	RθJC	12.5					K/W		
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +125					°C		

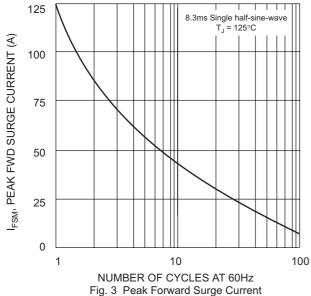
Note: 1. Mounted on metal chassis.

- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to case per element.





 V_F , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics, per element



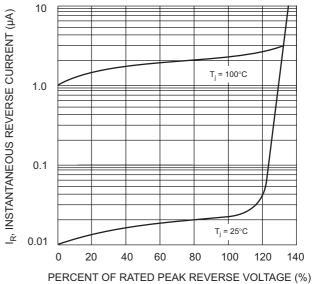


Fig. 4 Typical Reverse Characteristics

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC600	Square Bridge	200 Units/Box
KBPC601	Square Bridge	200 Units/Box
KBPC602	Square Bridge	200 Units/Box
KBPC604	Square Bridge	200 Units/Box
KBPC606	Square Bridge	200 Units/Box
KBPC608	Square Bridge	200 Units/Box
KBPC610	Square Bridge	200 Units/Box

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

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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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