
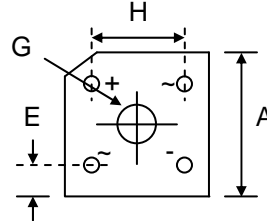
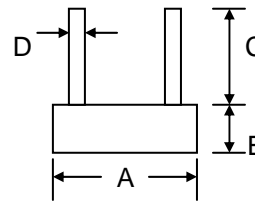


Features

- 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



KBPC-6		
Dim	Min	Max
A	14.70	15.75
B	5.80	6.90
C	15.00	—
D	1.00 Ø Typical	
E	1.70	2.72
G	Hole for #6 screw	
	3.60 Ø	4.00 Ø
H	10.30	11.30
All Dimensions in mm		



Mechanical Data

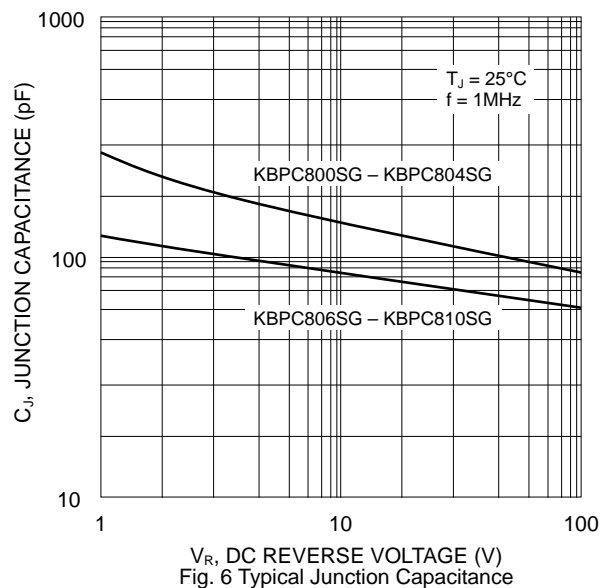
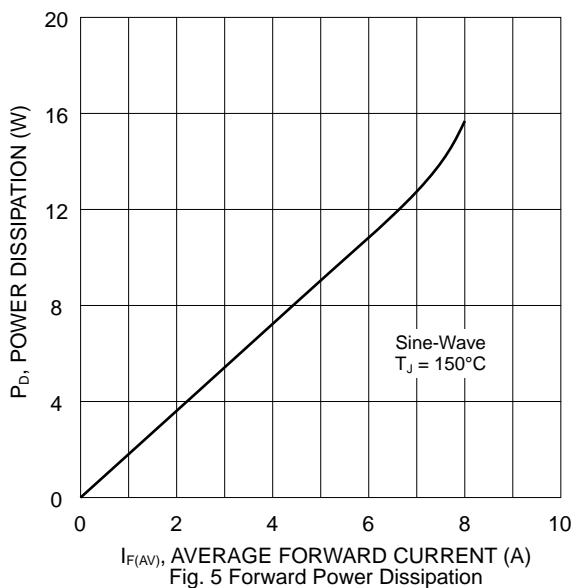
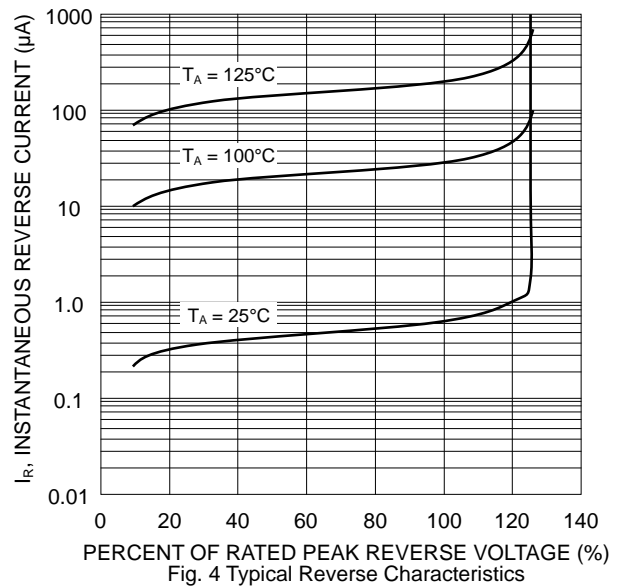
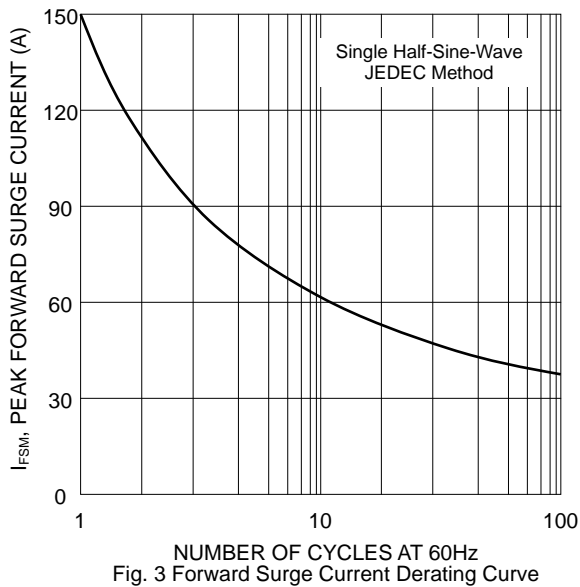
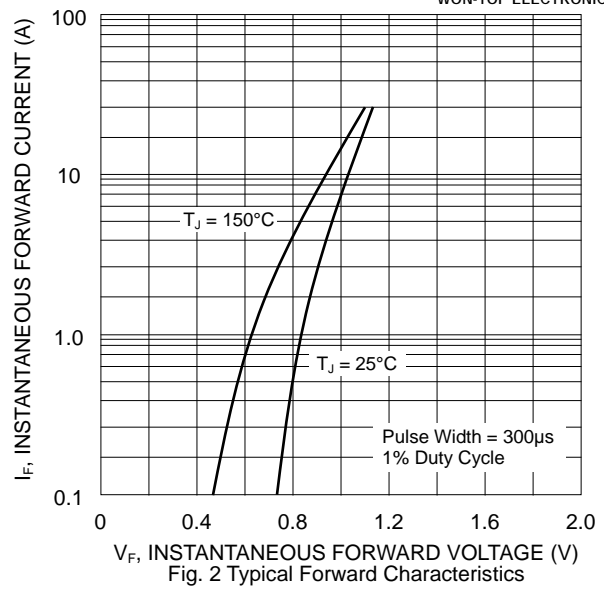
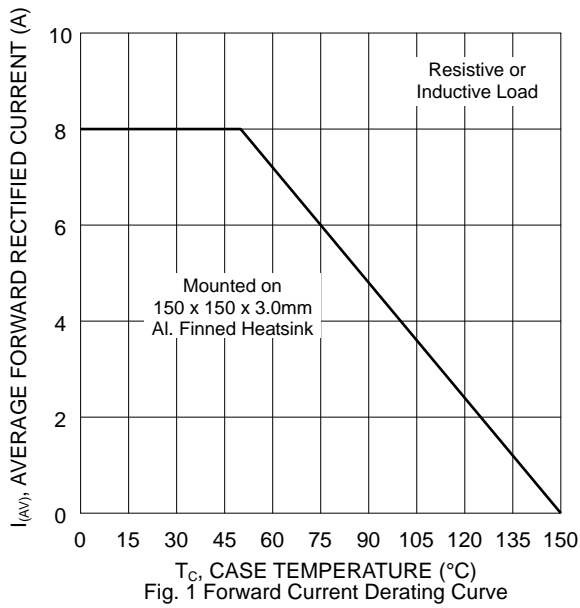
- Case: KBPC-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Weight: 3.8 grams (approx.)
- Mounting Position: Through Hole for #6 Screw
- Mounting Torque: 0.8 N.m Max.
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

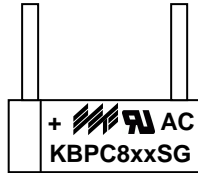
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 800SG	KBPC 801SG	KBPC 802SG	KBPC 804SG	KBPC 806SG	KBPC 808SG	KBPC 810SG	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_C = 50^\circ\text{C}$	I_O	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150							A
Forward Voltage per leg @ $I_F = 4.0\text{A}$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_{RM}	5.0 500							μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	127							A^2s
Typical Junction Capacitance (Note 2)	C_J	186				90			pF
Thermal Resistance Junction to Ambient (Note 3)	R_{JA}	22							$^\circ\text{C}/\text{W}$
Thermal Resistance Junction to Case (Note 1)	R_{JC}	7.3							
RMS Isolation Voltage Terminals to Case, $t = 1\text{min}$	V_{ISO}	1500							V
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

Note: 1. Mounted on 150 x 150 x 3.0mm thick Al. heatsink.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.



MARKING INFORMATION



KBPC8xxSG = Device Number
 xx = 00, 01, 02, 04, 06, 08 or 10
 Polarity = As Marked on Body

PACKAGING INFORMATION

BULK


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

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC800SG	Square Bridge	200 Units/Box
KBPC801SG	Square Bridge	200 Units/Box
KBPC802SG	Square Bridge	200 Units/Box
KBPC804SG	Square Bridge	200 Units/Box
KBPC806SG	Square Bridge	200 Units/Box
KBPC808SG	Square Bridge	200 Units/Box
KBPC810SG	Square Bridge	200 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC800SG-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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