KBPC15005G/GW-KBPC1510G/GW

KBPC-G



15A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 300A Peak
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- UL Listed Under Recognized Component Index, File Number E95060

KBPC-GW

Mechanical Data

Case: Molded Epoxy

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

Polarity: Symbols Marked on Case

Mounting: Through Hole for #10 Screw

Mounting Torque: 8.0 Inch-pounds Maximum

Weight: KBPC-G 24 grams (approx)KBPC-GW 21 grams (approx)

Mounting Position: AnyMarking: Type Number

KBPC-G / KBPC-GW							
Dim	Min	Max					
Α	28.40	28.70					
В	10.97	11.23					
С	15.70	16.70					
E	22.86	25.40					
G	13.50	14.50					
н	Hole for #10 screw						
	5.08 f Nominal						
J	17.50	18.50					
K	10.90	11.90					
L	0.97 f Nominal						
М	30.50	_					
N	10.97	11.23					
Р	17.60	18.60					
All Dimensions in mm							

W Suffix Designates Wire Leads No Suffix Designates Faston Terminals

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

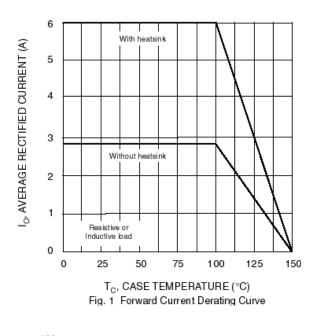
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

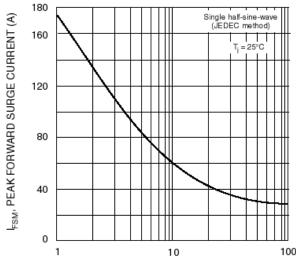
Characteristic		Symbol	KBPC15 005G/W	KBPC15 01 G/W	KBPC15 02G/W	KBPC15 04G/W	KBPC15 06G/W	KBPC15 08G/W	KBPC15 10G/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	@ T _C = 55°C	Io	15						Α	
Non-Repetitive Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	300						Α	
Forward Voltage (per element)	@ I _F = 7.5A	V _{FM}	′ғм 1.1					V		
Peak Reverse Current at Rated DC Blocking Voltage	@T _C = 25°C @ T _C = 125°C	I _R	5.0 500					μΑ		
I ² t Rating for Fusing (t<8.3ms) (Note 1)		I ² t	374							A ² s
Typical Junction Capacitance (Note 2)		Cj	300							pF
Typical Thermal Resistance Junction to Case (Note 3)		R _θ JC	6.3						K/W	
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150							°C

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

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Thermal resistance from junction to case per element. Unit mounted on PC board with 13 x 13 x 0.03mm land areas.





NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Surge Current

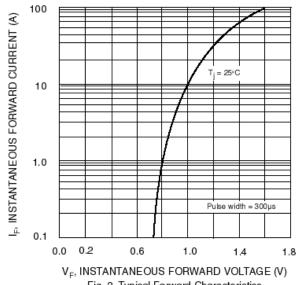


Fig. 2 Typical Forward Characteristics

