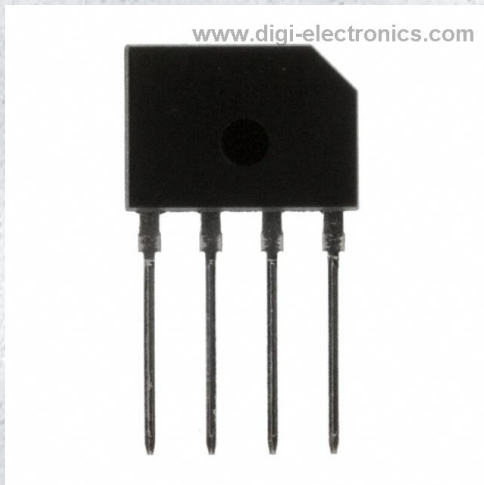


KBP2005G-BP Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	KBP2005G-BP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	KBP2005G-BP
Description	BRIDGE RECT 1PHASE 50V 2A GBP
Detailed Description	Bridge Rectifier Single Phase Standard 50 V Through Hole GBP



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

KBP2005G-BP

Series:

-

Diode Type:

Single Phase

Voltage - Peak Reverse (Max):

50 V

Voltage - Forward (Vf) (Max) @ If:

1.1 V @ 2 A

Operating Temperature:

-55°C ~ 150°C (Tj)

Package / Case:

4-SIP, GBP

Base Product Number:

KBP2005

Manufacturer:

Micro Commercial Co

Product Status:

Obsolete

Technology:

Standard

Current - Average Rectified (Io):

2 A

Current - Reverse Leakage @ Vr:

10 µA @ 50 V

Mounting Type:

Through Hole

Supplier Device Package:

GBP

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0080

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

	E502650
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Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 8 °C/W Junction To Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP2005G	KBP2005G	50V	35V	50V
KBP201G	KBP201G	100V	70V	100V
KBP202G	KBP202G	200V	140V	200V
KBP204G	KBP204G	400V	280V	400V
KBP206G	KBP206G	600V	420V	600V
KBP208G	KBP208G	800V	560V	800V
KBP210G	KBP210G	1000V	700V	1000V

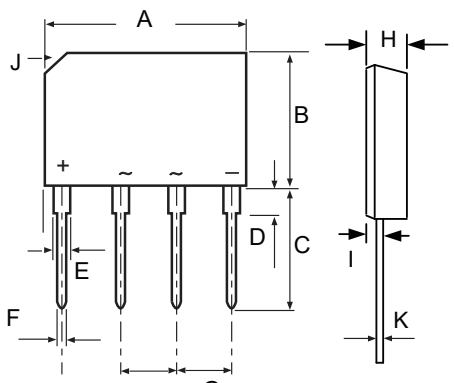
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_A = 65^\circ\text{C}$
Non-Repetitive Peak Forward Surge Current	I_{FSM}	60A 120A	8.3ms, Half Sine Wave 1ms, Square Wave
Maximum Forward Voltage Drop Per Element	V_F	1.05V	$I_{FM} = 2.0\text{A Per Element};$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA 1mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Dielectric Strength	V_{ISO}	2KV	
Rating for Fusing	I^2t	15 A ² s	$t < 8.3\text{ms}$
Typical Junction Capacitance	C_J	25 pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a
 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

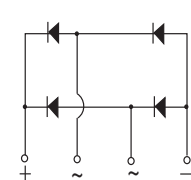
GBP



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.561	0.580	14.25	14.75	
B	0.406	0.417	10.10	10.60	
C	0.561	0.581	14.25	14.73	
D	0.071	0.087	1.80	2.20	
E	0.046	0.056	1.17	1.42	
F	0.030	0.034	0.76	0.86	
G	0.140	0.160	3.56	4.06	
H	0.131	0.161	3.35	4.10	
I	0.031	0.043	0.80	1.10	
J	0.106 X 45°		2.70 X 45°		
K	0.012	0.025	0.30	0.64	

Case Type



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

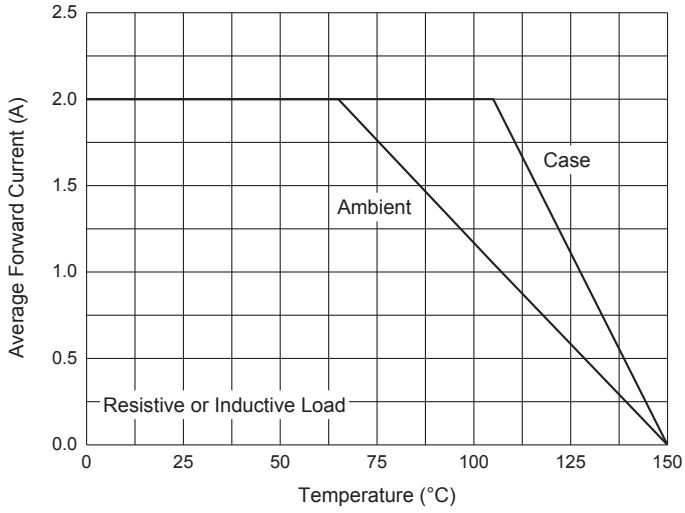


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

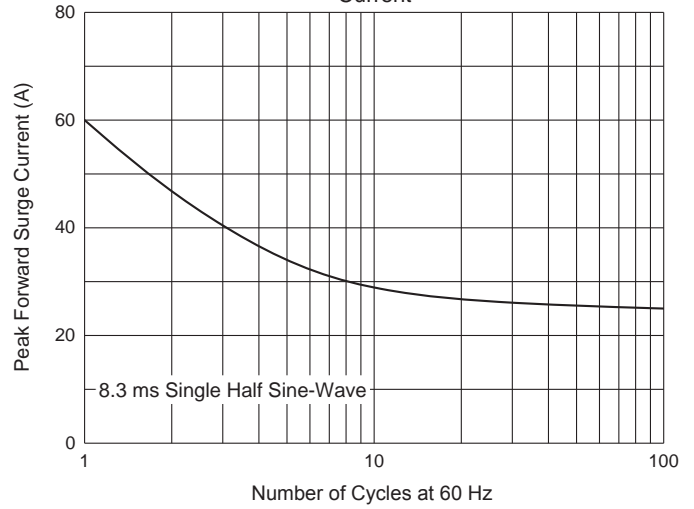


Fig. 3 - Typical Instantaneous Forward Characteristics

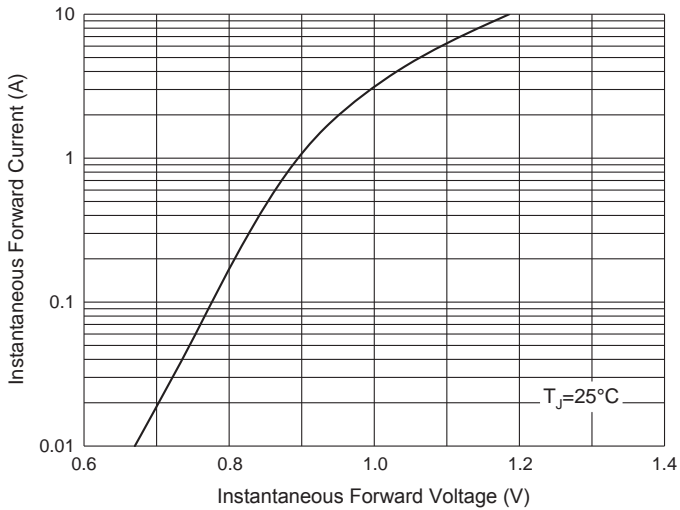


Fig. 4 - Typical Reverse Leakage Characteristics

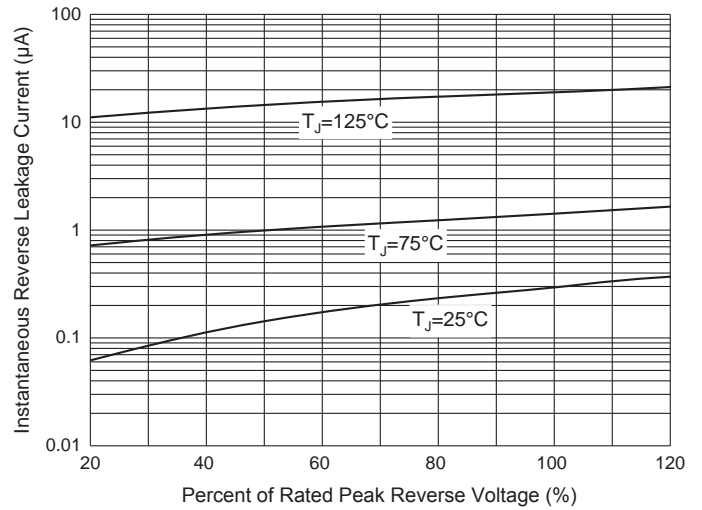
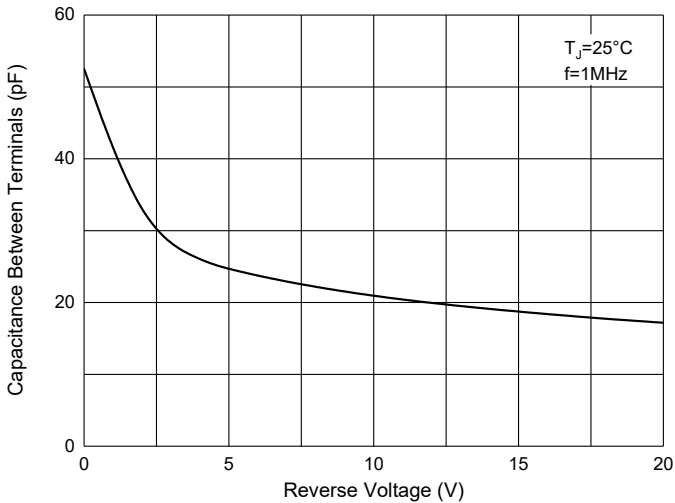


Fig. 5 - Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:35pcs/Tube,2100pcs/Box,4200pcs/Carton

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