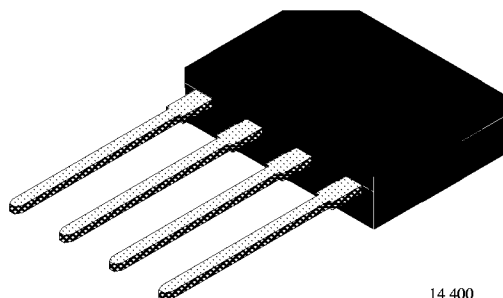




1.5A Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction
- High case dielectric strength of 1500V_{RMS}
- Low reverse leakage current
- Surge overload rating to 40A peak
- Ideal for printed circuit board applications
- Plastic material – UL Recognition flammability classification 94V–0
- This series is UL listed under recognized component index, file #E95060



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Absolute Maximum Ratings

 $T_j = 25^{\circ}\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage =Working peak reverse voltage =DC Blocking voltage		KBP005G	V_{RRM} $=V_{RWM}$ $=V_R$	50	V
		KBP01G		100	V
		KBP02G		200	V
		KBP04G		400	V
		KBP06G		600	V
		KBP08G		800	V
		KBP10G		1000	V
Peak forward surge current			I_{FSM}	40	A
Average forward current	$T_C=105^{\circ}\text{C}$		I_{FAV}	1.5	A
Junction and storage temperature range			$T_j=T_{stg}$	–65...+150	$^{\circ}\text{C}$

Electrical Characteristics

 $T_j = 25^{\circ}\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=1.5\text{A}$		V_F			1.1	V
Reverse current	$T_C=25^{\circ}\text{C}$		I_R			5	μA
	$T_C=125^{\circ}\text{C}$		I_R			500	μA
Diode capacitance	mounted on 300x300x1.6mm aluminum plate		C_D		20		pF
Thermal resistance junction to case	$V_R=4\text{V}$, $f=1\text{MHz}$		R_{thJC}		30		K/W

Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)

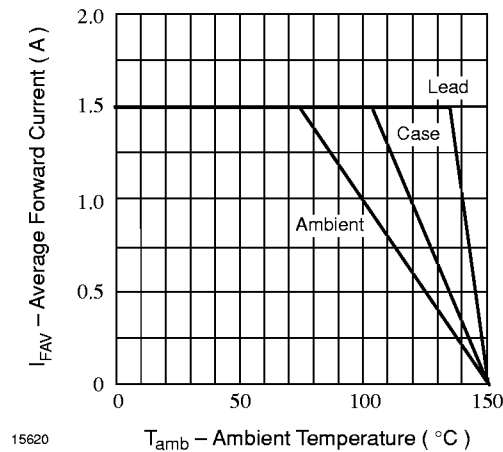


Figure 1. Max. Average Forward Current vs. Ambient Temperature

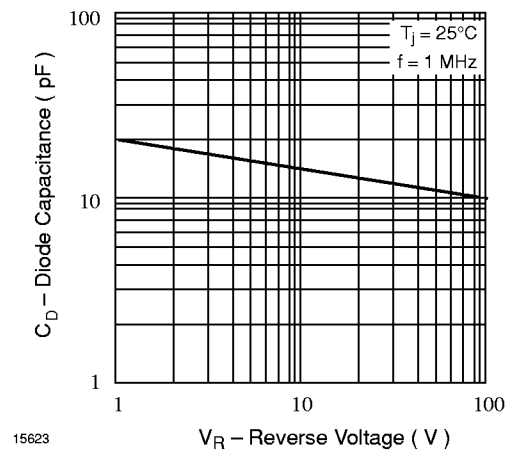


Figure 4. Typ. Diode Capacitance vs. Reverse Voltage

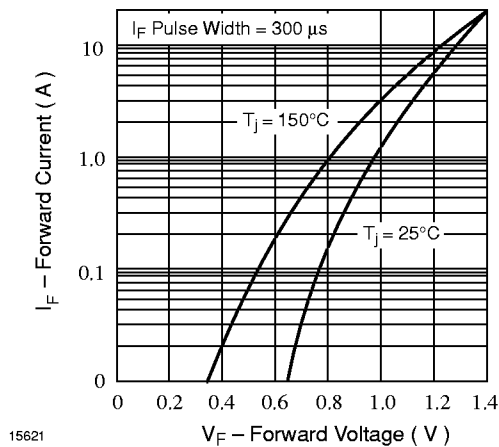


Figure 2. Typ. Forward Current vs. Forward Voltage

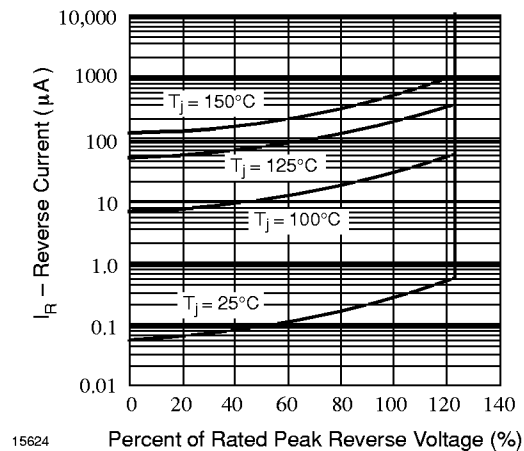


Figure 5. Typ. Reverse Current vs. Percent of Rated Peak Reverse Voltage

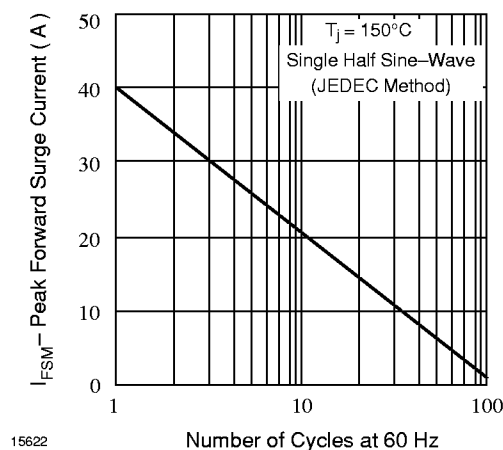
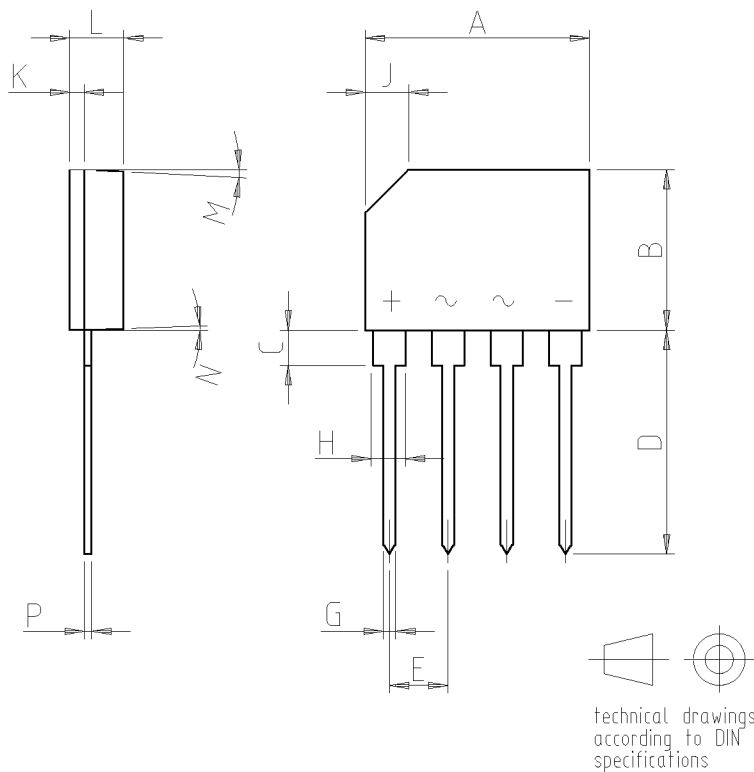


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles



Dimensions in mm



KBP		
Dim	Min	Max
A	14.25	14.75
B	10.20	10.60
C	2.29 Typical	
D	14.25	14.73
E	3.56	4.06
G	0.76	0.86
H	1.17	1.42
J	2.8x45° Chamfer	
K	0.80	1.10
L	3.35	3.65
M	3° Nominal	
N	2° Nominal	
P	0.30	0.64
All Dimensions in mm		

Case: molded plastic
Polarity: as marked on body
Approx. weight: 1.52 grams
Mounting position: any
Marking: type number

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Ozone Depleting Substances Policy Statement

It is the policy of **Vishay Semiconductor GmbH** to

1. Meet all present and future national and international statutory requirements.
2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Telefunken products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Telefunken against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

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