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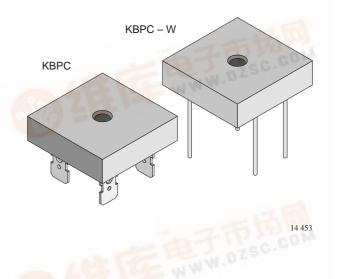
# KBPC35005/W-KBPC3510/W

Vishay Lite-On Power Semiconductor

# **35A Bridge Rectifier**

#### **Features**

- Diffused junction
- Low reverse leakage current
- Surge overload rating to 400A peak
- Electrically isolated metal case for maximum heat dissipation
- Low power loss, high efficiency
- Case to terminal isolation voltage 2500V
- This series is UL Listed under recognized component index, file number E95060



### **Absolute Maximum Ratings**

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage		KBPC35005/W	V <sub>RRM</sub>	50	V
=Working peak reverse voltage =DC Blocking voltage		KBPC3501/W	=V <sub>RWM</sub>	100	V
		KBPC3502/W	=V <sub>R</sub>	200	V
		KBPC3504/W		400	V
		KBPC3506/W	110	600	V
		KBPC3508/W	E B2	800	V
		KBPC3510/W	WW S	1000	V
Peak forward surge current	-	32 1	I <sub>FSM</sub>	400	Α
Average forward current	T <sub>C</sub> =55°C	WW -	I <sub>FAV</sub>	35	Α
Junction and storage temperature range	ADA		T <sub>i</sub> =T <sub>sta</sub>	-65+150	°C

## **Electrical Characteristics**

N SE

#### T<sub>j</sub> = 25°C

-		_			_		
Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I <sub>F</sub> =17.5A		V <sub>F</sub>	25	0.0	1.2	V
Reverse current	T <sub>C</sub> =25°C		I <sub>R</sub>	44		10	μΑ
	T <sub>C</sub> =125°C	160	I <sub>R</sub>			1.0	mA
I <sup>2</sup> t Rating for fusing		/	l <sup>2</sup> t			664	A <sup>2</sup> s
Diode capacitance	V <sub>R</sub> =4V, f=1MHz		CD		300		pF
Thermal resistance junction to case	50		R <sub>thJC</sub>		2.7		K/W



## KBPC35005/W–KBPC3510/W Vishay Lite–On Power Semiconductor



### **Characteristics** ( $T_i = 25^{\circ}C$ unless otherwise specified)

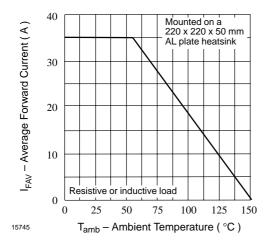


Figure 1. Max. Average Forward Current vs. Ambient Temperature

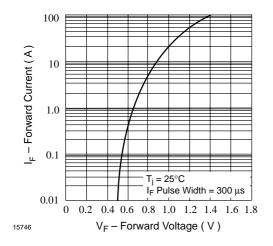


Figure 2. Typ. Forward Current vs. Forward Voltage

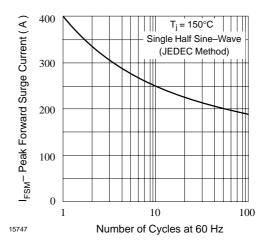


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles

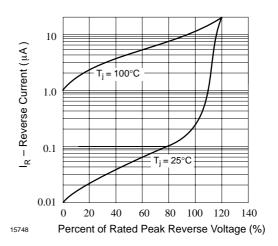
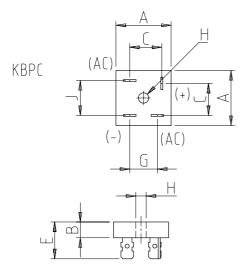


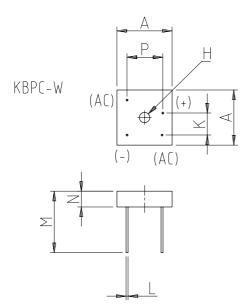
Figure 4. Typ. Reverse Current vs. Percent of Rated Peak Reverse Voltage



## KBPC35005/W–KBPC3510/W Vishay Lite–On Power Semiconductor

#### **Dimensions in mm**





	KBPC/KBPC-W				
Dim	Min	Max			
Α	28.30	28.80			
В	7.90	8.40			
C	16.10	17.10			
E	18.80	21.30			
G	13.80	14.80			
Н	Hole for#10 screw				
	Ø5.08	Ø5.59			
J	17.60	18.60			
Κ	10.90	11.90			
L	Ø0.97	Ø1.07			
М	31.80				
Ν	7.90	8.40			
Ρ	17.60	18.60			
A	All Dimensions in mm				

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals



technical drawings according to DIN specifications

14481

Case: molded epoxy Terminals: plated leads solderable per MIL–STD–202, method 208 Polarity: symbols marked on case Approx. weight: KBPC 31.6 grams, KBPC–W 28.5 grams Mounting: through hole for #10 screw Mounting torque: 8.0 Inch–pounds maximum Mounting position: any Marking: type number

# KBPC35005/W-KBPC3510/W

Vishay Lite-On Power Semiconductor



### **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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