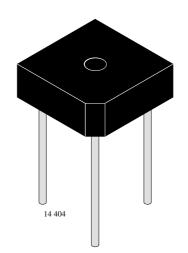


Vishay Lite On Power Semiconductor

8.0A Bridge Rectifier

Features

- Diffused junction
- High current capability
- Surge overload rating to 125A peak
- High case dielectric strength of 1500V
- Ideal for printed circuit board applications
- Plastic material has underwriters laboratory flammability classification 94V–0
- UL Listed under recognized component index, file number E95060



Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage		PBPC801	V _{RRM}	50	V
=Working peak reverse voltage		PBPC802	=V _{RWM}	100	V
=DC Blocking voltage		PBPC803	=V _R	200	V
		PBPC804		400	V
		PBPC805		600	V
		PBPC806		800	V
		PBPC807		1000	V
Peak forward surge current			I _{FSM}	125	A
Average forward current	T _C =50°C, mounted on metal chassis		I _{FAV}	8	A
	T _C =50°C, mounted on PC board FR–4 material		I _{FAV}	6	A
Junction and storage temperature range			T _j =T _{stg}	-65+125	°C

Electrical Characteristics

T_i = 25°C

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =4A		V _F			1.1	V
Reverse current	T _C =25°C		I _R			10	μΑ
	T _C =100°C		I _R			1	mA
I ² t Rating for fusing			l ² t			64	A ² s
Diode capacitance	V _R =4V, f=1MHz		CD		100		pF
Thermal resistance junction to case			R _{thJC}		9.4		K/W

Vishay Lite-On Power Semiconductor



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

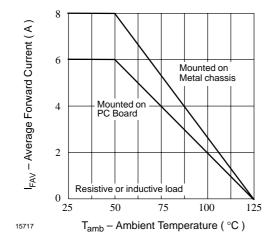


Figure 1. Max. Average Forward Current vs. Ambient Temperature

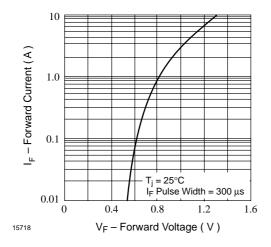


Figure 2. Typ. Forward Current vs. Forward Voltage

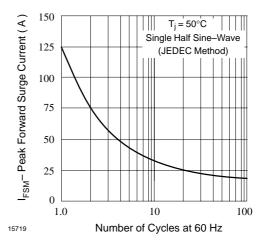


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles

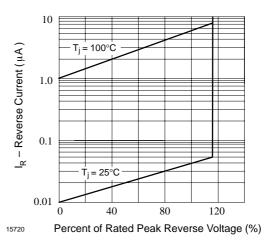
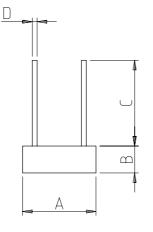


Figure 4. Typ. Reverse Current vs. Percent of Rated Peak Reverse Voltage



Vishay Lite On Power Semiconductor

Dimensions in mm

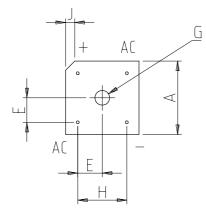


	PBPC-8					
Dim	Min	Max				
Α	18.54	19.56				
В	6.35	7.60				
C	22.20	-				
D	Ø1.27 Typical					
E	5.33	7.37				
G	Ø3.60	Ø4.00				
Η	H 12.70 Typical					
J 2.38x45° Typical						
A	All Dimensions in mm					



technical drawings according to DIN specifications

14479



Case: molded plastic body Polarity: marked on body Approx. weight: 5.4 grams Mounting: through hole for #6 screw Mounting torque: 5.0 Inch–pounds maximum Mounting position: any Marking: type number

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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