imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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100VAC Input/Constant Current

Isolated High-power LED Driver for Illumination **BP5845W**

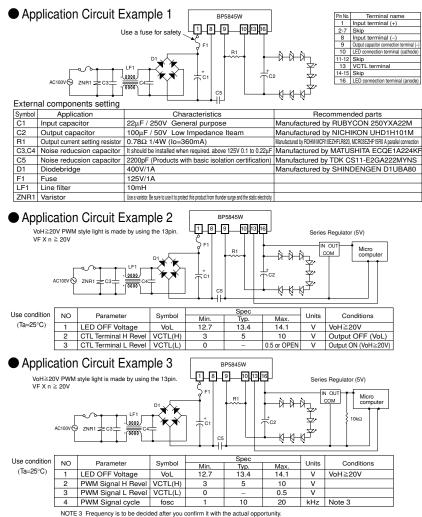
Absolute Maximum Ratings

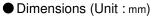
Parameter	Symbol	Limits	Units	Conditions
Input voltage	Vi	170	V	DC
Output voltage (limits)	Vo	36	V	lo=360mA
Output voltage (no loal)	Vo	39	V	lo=0mA
Output current	lo	378	mA	
Output control terminal voltage	VCTL	12.5	V	
Withstand voltage	BV	1.8	kV	1sec (between primary and secondary) While pin 1 and 8 are shorted and pins 9-16 a shorted, a voltage is applied between them.
Maximum surface temperature	Tcmax	105	°C	Ambient temperature + the module self-heating \leq Tcmax
Operating temperature range	Topr	-20 to +80	°C	Refer to derating curve
Storage temperature range	Tstg	-25 to +85	°C	

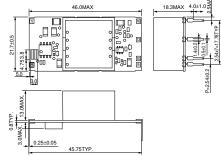
Electrical Characteristics

Parameter	Symbol	Spec		Units	Conditions	
Farameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Input voltage range	Vi	113	141	170	V	
Output current	lo1	342	360	378	mA	Vi=141V,R1=0.78Ω *1
Output voltage range	Vo	15.0	-	36	V	Vi=141V,Io=360mA
Output ripple voltage	Vp	-	0.1	0.5	Vp-p	Vi=141V,Io=360mA *2
Conversion efficiency	η	83	88	-	%	Vi=141V,Vo=36V,Io=360mA
NOTE 1 Maximum output	ut current var	ies dependi	ng on ambie	nt temperatu	ire. Refer to	the derating curve.

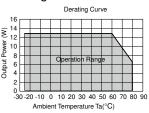
NOTE 2 Spike noise is not included in output ripple voltage



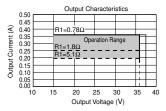




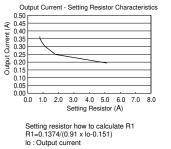
Derating Curve

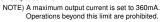


Output Characteristics



Setting current





Power Module Usage Precautions

Safety Precautions

- 1) The products are designed and manufactured for use in ordinary electronic equipment (i.e. AV/OA/ telecommunication/amusement equipment, home appliances). Please consult with the Company's (ROHM) sales staff if intended for use in devices requiring high reliability (e.g. medical/transport/ aircraft/spacecraft equipment, nuclear power/fuel controllers, automotive/safety devices) and whose malfunction may result in injury or death. In this case, failsafe measures must be taken, including the following:
 - [a] Installation of protection circuits in order to improve system safety
 - [b] Incorporation of redundant circuits in the case of single-circuit failure
- 2) The products are designed for use under normal conditions. Application in special environments can cause a deterioration in product performance. Therefore, verification and confirmation of product performance, prior to use, is recommended. The following environments are considered to be 'special':

 [a] Outdoors, exposed to direct sunlight or dust
 - [b] In contact with liquids, such as water, oils, chemicals, or organic solvents
 - [c] In areas where exposure to the sea air or corrosive gases (i.e. Cl₂, H₂S, NH₃, SO₂, NO₂) can occur
 - [d] In places where the products may be in contact with static electricity or electromagnetic waves
 - [e] In proximity to heat-producing items, plastic cords, or flammable materials
 - [f] In contact with sealing or coating products, such as resin
 - [g] In contact with unclean solder or exposed to water or water-soluble cleaning agents used after soldering
 - [h] In areas where dew condensation occurs
- 3) The products are not designed to be radiation resistant
- 4) The Company is not responsible for any problems resulting from use of the products under conditions not recommended herein.
- 5) The Company should be notified of any product safety issues. Moreover, product safety issues should be periodically monitored by the customer.

Application Notes

- 1) A sufficient margin must be allowed if changes are made to the peripheral circuit due to variations in the inherent tolerances of the external components as well as transient and static characteristics. In addition, please be aware that the Company has not conducted investigations on whether or not particular changes in the example application circuits would result in patent infringement.
- 2) The application examples, their constants, and other types of information contained herein are applicable only when the products are used in accordance with standard methods.

Therefore, if mass production is intended, sufficient consideration to external conditions must be made.

Notes Regarding Industrial Property

- 1) The specifications included herein contain information related to the Company's industrial property. Their use other than pertaining to the relevant products is forbidden. Duplication and/or disclosure to a third party without express written permission is strictly prohibited.
- 2) Product information and data, including application examples, contained in the specifications are for reference purposes only; the Company does not guarantee the industrial/intellectual property rights or any other rights of a third party. Accordingly, the Company shall not bear responsibility for:
 [a] Infringement of the intellectual property rights of a third party
 [b] Problems arising from the use of the products listed herein
- 3) The Company prohibits the purchaser from exercising or using the intellectual/industrial property rights or any rights belonging to or are controlled by the Company, other than the right to use, sell, or dispose of the products.

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