

● Pin descriptions

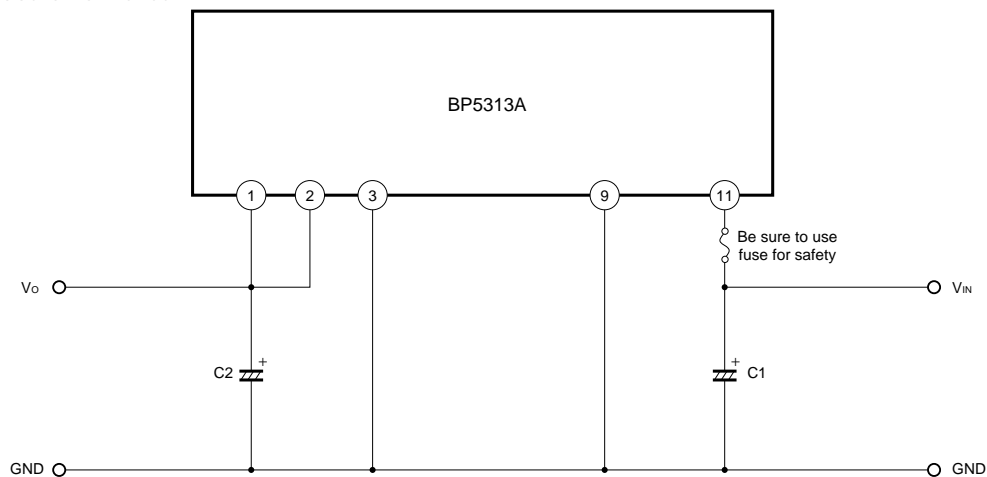
Pin No.	Pin name	Function
1, 2	V _O	Output pin; A capacitor should be installed between this pin and GND (Recommended : 47μF low-Impedance capacitor)
3, 9	GND	Ground pin.
11	V _{IN}	Input pin; A capacitor should be installed between this pin and GND (Recommended : 100μF low-Impedance capacitor)

● Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _{IN}	11.4	12.0	12.6	V	
Output current	I _O	–	–	60	mA	
Output voltage	V _O	38.0	40.0	42.0	V	V _{IN} =11.4~12.6V, I _{OUT} =0~60mA
Ripple noise voltage	v ₁	–	60	150	mV _{PP}	V _{IN} =12V, I _{OUT} =60mA *
Efficiency	η	75	83	–	%	V _{IN} =12V, I _{OUT} =60mA

*Spike noise not Included.

● Measurement circuit



C1 : 100μF/16V(Low impedance)

C2 : 47μF/50V(Low impedance)

Fig.1

● Operation notes

- (1) External I/O tors should be positioned as close as possible to pins, and the impedance, particularly between capacitor C1 and pin 11 on the output side, should be kept as low as possible. (Reference value : approx. 50mm or less for a width of 1.0 mm and thickness of 35μm)
- (2) The power supply should not be turned on and off repeatedly (more than 5 times / second.)

● Electrical characteristics curves

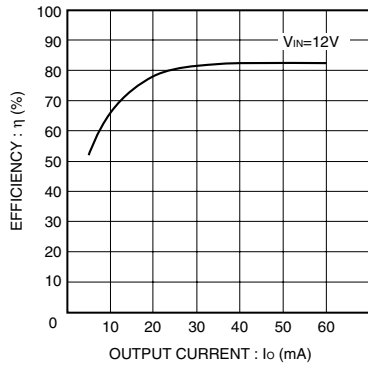


Fig.2 Efficiency

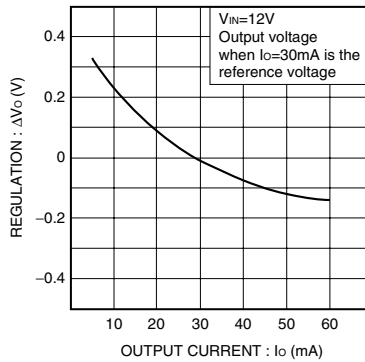
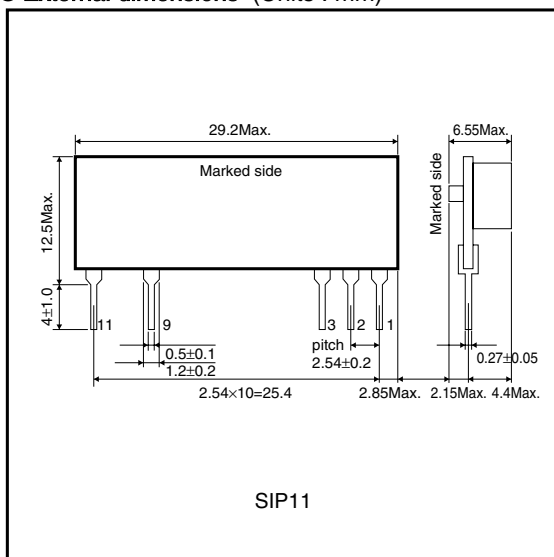


Fig.3 Load regulation

● External dimensions (Units : mm)



Precautions on Use of ROHM Power Module

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- 2) The products are designed for use in a standard environment and not in any special environments. Application of the products in a special environment can deteriorate product performance. Accordingly, verification and confirmation of product performance, prior to use, is recommended if used under the following conditions:
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 - [b] Use outdoors where the products are exposed to direct sunlight, or in dusty places
 - [c] Use in places where the products are exposed to sea winds or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use in places where the products are exposed to static electricity or electromagnetic waves
 - [e] Use in proximity to heat-producing components, plastic cords, or other flammable items
 - [f] Use involving sealing or coating the products with resin or other coating materials
 - [g] Use involving unclean solder or use of water or water-soluble cleaning agents for cleaning after soldering
 - [h] Use of the products in places subject to dew condensation
- 3) The products are not radiation resistant.
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