

-12V/100mA Output

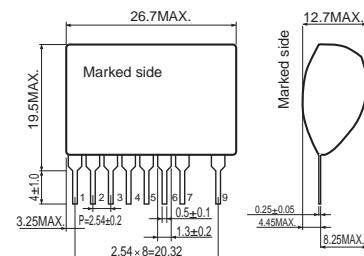
# Negative DC/DC Converter (Non-isolated)

BP5122

## Absolute Maximum Ratings

Parameter	Symbol	Limits	Unit
Input voltage	Vi	24	V
Output Current	Io	0.1	A
Operating temperature range	Topr	-15 to +70	°C
Storage temperature range	Tstg	-25 to +85	°C

## Dimensions (Unit : mm)



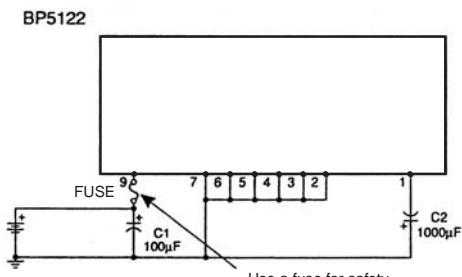
## Electrical Characteristics

(Vi=15V, Io=0.05A, SW=1, Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	Vi	8	—	20	V	
Output voltage	Vo	-12.8	-12.0	-11.2	V	
Rated output current	Io	0.01	—	0.1	A	See Derating Curve.
Line regulation	ΔVo1	—	2	80	mV	Vi=8V to 20VDC
Load regulation	ΔVo2	—	5	80	mV	Io=0.01A to 0.1A
Output ripple voltage	Δγ	—	10	80	mVpp	*1
Power conversion efficiency	η	60	70	—	%	
Switching Frequency	fsw	—	250	—	kHz	

\*1:Pulsating noise is not included.

## Sample Application Circuit



Please verify operation and characteristics in the customer's circuit before actual usage. Ensure that the load current does not exceed the maximum rating.

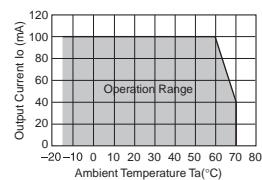
Pin No.	Terminal name
1	Output Terminal
2	GND
3	GND
4	GND
5	GND
6	GND
7	GND
8	Skip
9	Input Terminal

## External Component Settings

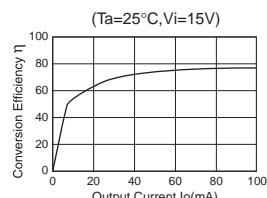
C1: PL series / Nichicon Ripple current 1Arms or greater  
100 to 4700μF/50VC2: PL series / Nichicon Ripple current 0.4Arms or greater  
470 to 2200μF/50V

FUSE : Use a quick-acting fuse (2A)

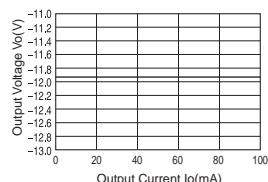
## Derating Curve



## Conversion Efficiency



## Load Regulation



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