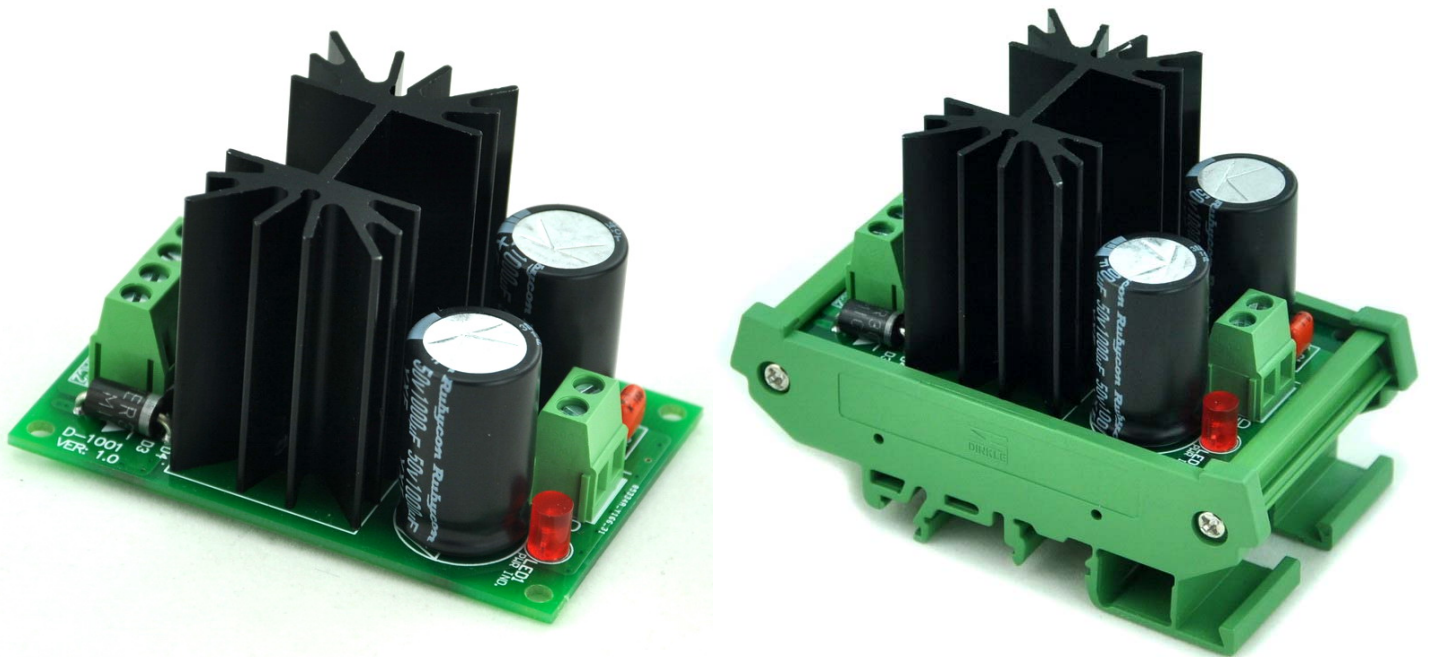


CZH-LABS

Negative Voltage Regulator Module

Model: D-1001 series



Negative Voltage Regulator Module

Based on 7900 series or LM337 voltage regulator IC design

Version	Input DC	Input AC	Output Vol. DC	Max. Output Current	Note
D1001/5V	-8 to -35V	6.7 to 25V	-5 +/-0.2V	1 Amp	Output voltage non-adjustable.
D1001/6V	-9 to -35V	7.5 to 25V	-6 +/-0.25V	1 Amp	Output voltage non-adjustable.
D1001/8V	-11 to -35V	8.9 to 25V	-8 +/-0.3V	1 Amp	Output voltage non-adjustable.
D1001/9V	-12 to -35V	9.6 to 25V	-9 +/-0.35V	1 Amp	Output voltage non-adjustable.
D1001/10V	-13V to -35V	10.3 to 25V	-10 +/-0.4V	1 Amp	Output voltage non-adjustable.
D1001/12V	-15 to -35V	11.8 to 25V	-12 +/-0.5V	1 Amp	Output voltage non-adjustable.
D1001/15V	-18 to -35V	13.9 to 25V	-15 +/-0.6V	1 Amp	Output voltage non-adjustable.
D1001/18V	-21 to -35V	16.0 to 25V	-18 +/-0.7V	1 Amp	Output voltage non-adjustable.
D1001/24V	-27 to -35V	20.3 to 28.5V	-24 +/-1V	1 Amp	Output voltage non-adjustable.
D1001/ADJ	-4 to -43V	4.5 to 30V	-1.25 to -37V	1.5 Amp	Output voltage adjustable

Note:

1, The item is analog voltage regulator, no step-up function, input to output dropout voltage must $\geq 3V_{DC}$.

2, Max. output current: $10 / (V_{inDC} - V_{outDC})$ Amp, up to 1 Amp (D1001/ADJ is 1.5 Amp).

3, For AC input mode, please according the following formula to calculate DC.

$$V_{inDC} = (V_{inAC} \times 1.414) - 1.4$$

2, For AC input mode, transformer no-load voltage must be less than the maximum allowable voltage, for example: D1001/12V, the maximum AC input 25V.

PCB size: L47.35mm x W72.5mm / L1.86" x W2.85"

Module size:

(without DIN rail carrier): L47.35mm x W72.5mm x H43mm / L1.86" x W2.85" x H1.69"

(with DIN rail carrier): L50mm x W87mm x H66mm / L1.97" x W3.43" x H2.60"

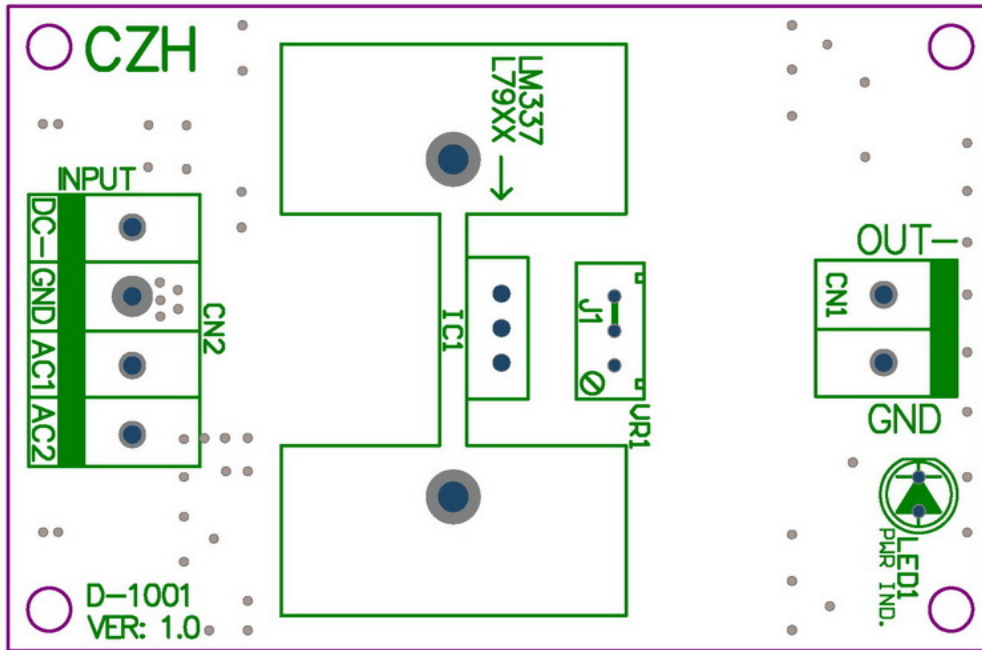
This is a very typical regulator circuit, other electrical specifications please read these IC datasheet:

7800 series <https://www.fairchildsemi.com/datasheets/LM/LM7905.pdf>

LM317: <https://www.fairchildsemi.com/datasheets/LM/LM337.pdf>

Any questions feel free to contact me:: Jianglily2005@gmail.com

Wring Diagram and Adjust:



Input Terminal Block:

DC- : DC voltage input negative.

GND: DC input ground (0V).

AC1: AC input 1.

AC2: AC input 2.

Output Terminal Block:

OUT-: Regulated DC voltage output negative.

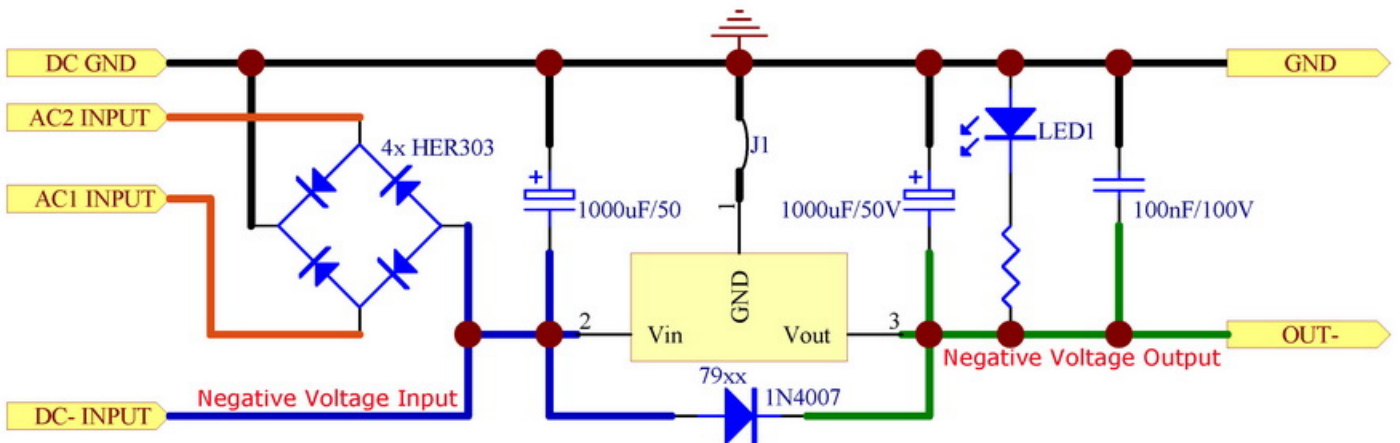
GND: DC output ground (0V).

VR1:

Only for adjustable version, for output voltage value adjust. this is a precision 25-turns potentiometer.

Schematic:

Non-adjustable Version



Adjustable Version

