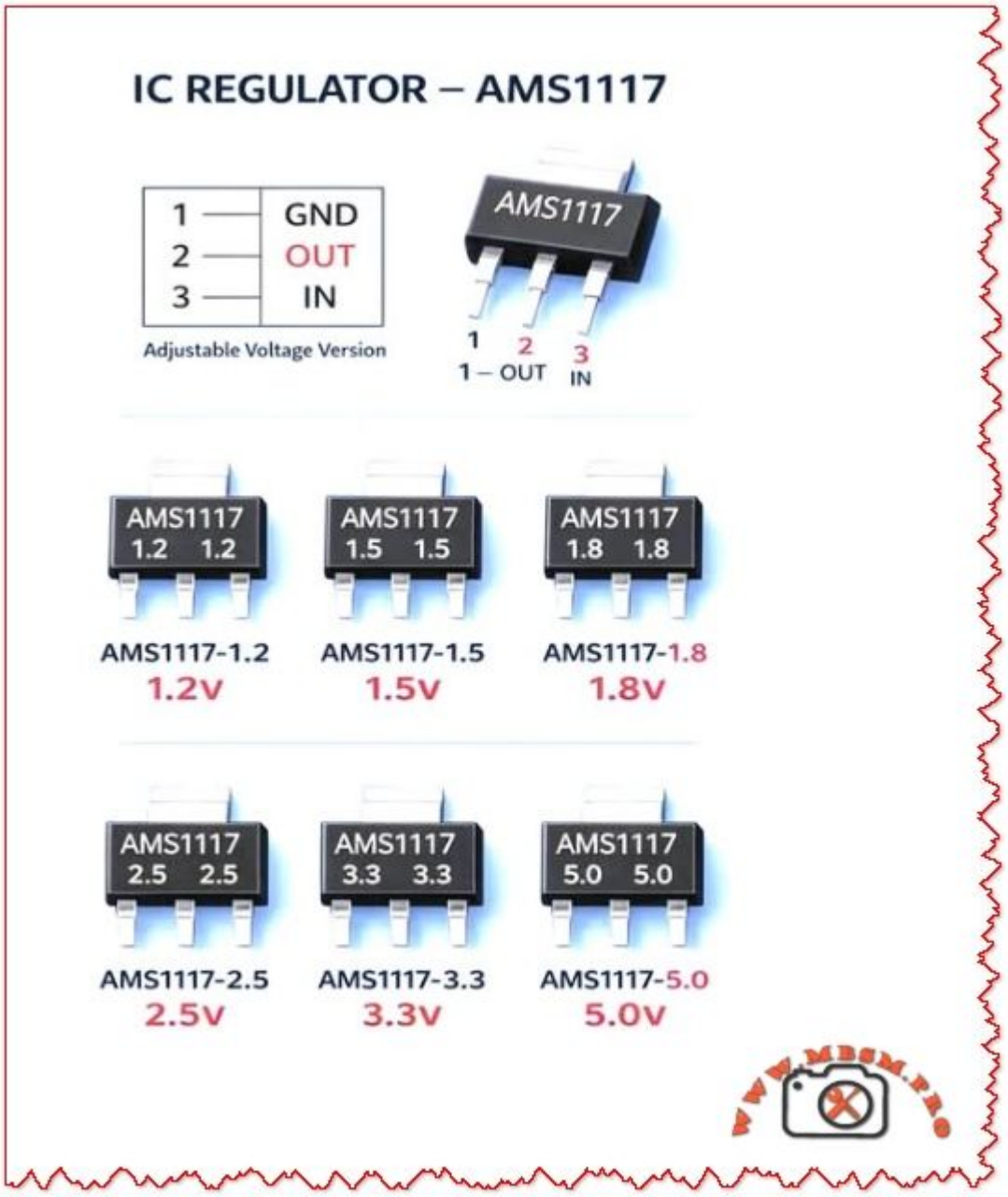
AMS1117 Voltage Regulator

Category: Equipment
written by www.mbsm.pro | 8 January 2026



Mbsmpro.com, AMS1117 Voltage Regulator, Common Mistakes, Thermal Design, 1.2V–5.0V, Decoupling, Layout, Alternatives

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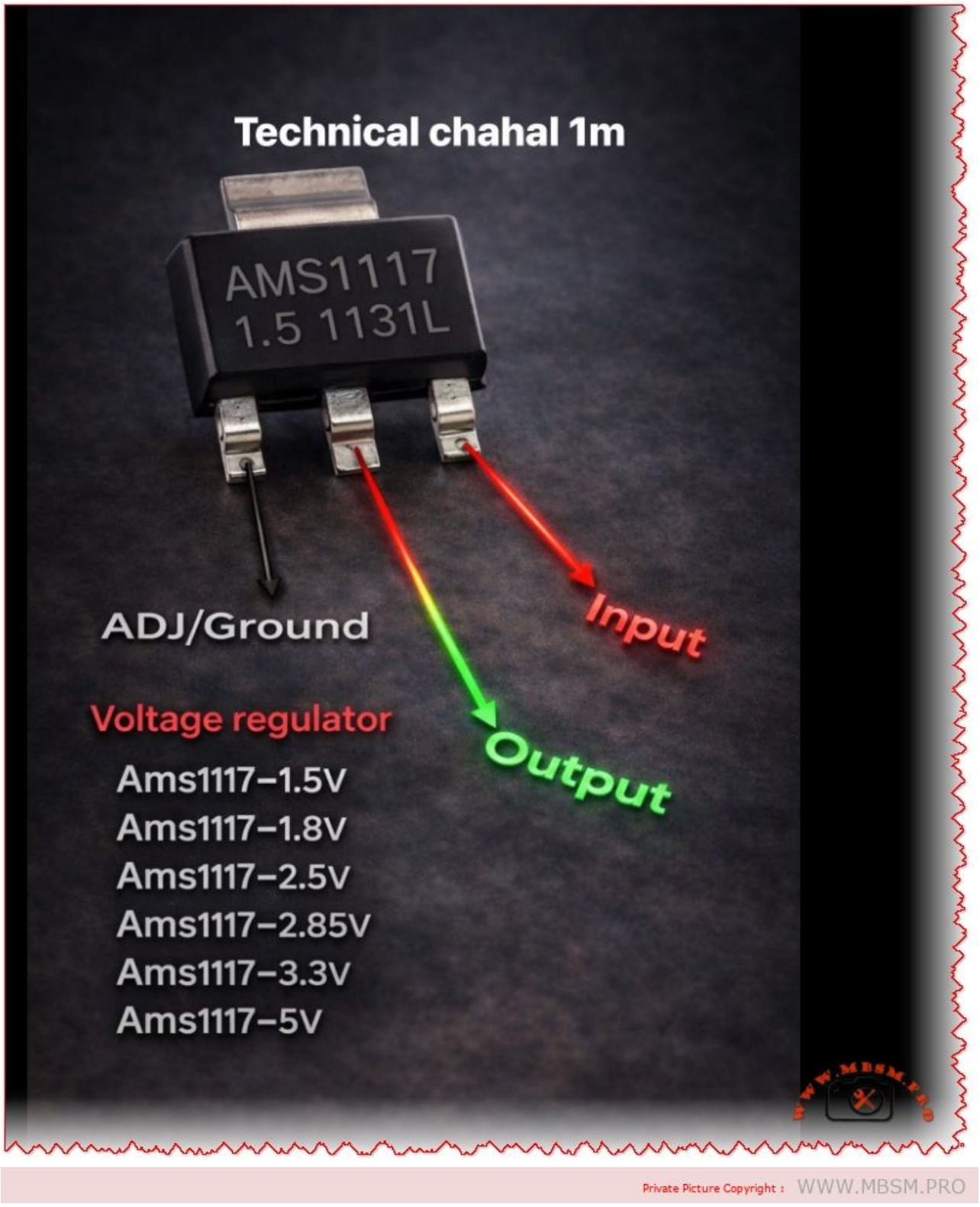
AMS1117 Voltage Regulator

Category: Electronic
written by www.mbsm.pro | 8 January 2026



AMS1117 voltage regulator pinout input output ground fixed versions 1.5V 1.8V 2.5V 2.85V 3.3V 5V applications

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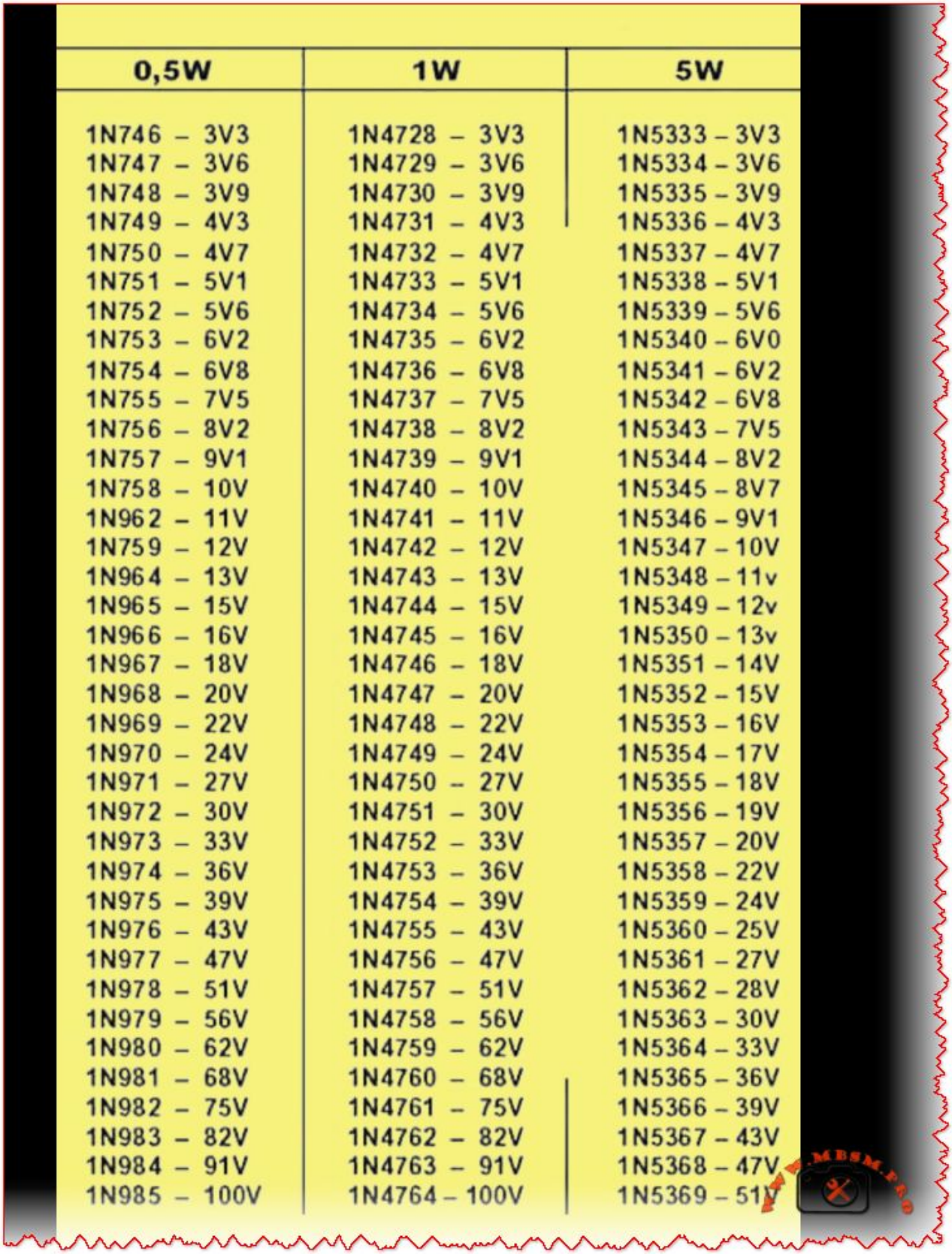
Zener Diode Series 1N746 to 1N5369 Overview

Category: Electronic
written by www.mbsm.pro | 8 January 2026



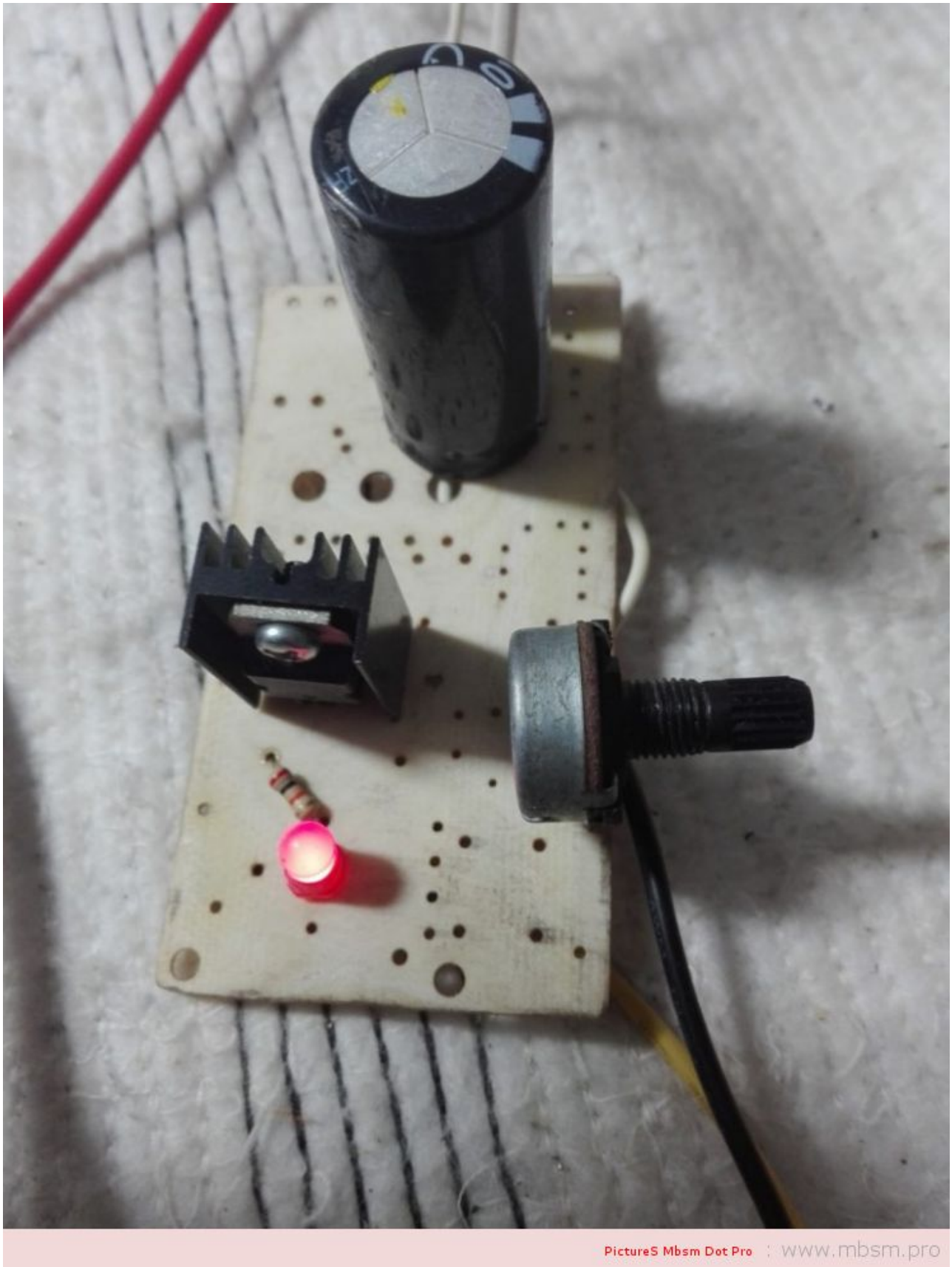
0,5W	1W	5W
1N746 – 3V3	1N4728 – 3V3	1N5333 – 3V3
1N747 – 3V6	1N4729 – 3V6	1N5334 – 3V6
1N748 – 3V9	1N4730 – 3V9	1N5335 – 3V9
1N749 – 4V3	1N4731 – 4V3	1N5336 – 4V3
1N750 – 4V7	1N4732 – 4V7	1N5337 – 4V7
1N751 – 5V1	1N4733 – 5V1	1N5338 – 5V1
1N752 – 5V6	1N4734 – 5V6	1N5339 – 5V6
1N753 – 6V2	1N4735 – 6V2	1N5340 – 6V0
1N754 – 6V8	1N4736 – 6V8	1N5341 – 6V2
1N755 – 7V5	1N4737 – 7V5	1N5342 – 6V8
1N756 – 8V2	1N4738 – 8V2	1N5343 – 7V5
1N757 – 9V1	1N4739 – 9V1	1N5344 – 8V2
1N758 – 10V	1N4740 – 10V	1N5345 – 8V7
1N962 – 11V	1N4741 – 11V	1N5346 – 9V1
1N759 – 12V	1N4742 – 12V	1N5347 – 10V
1N964 – 13V	1N4743 – 13V	1N5348 – 11v
1N965 – 15V	1N4744 – 15V	1N5349 – 12v
1N966 – 16V	1N4745 – 16V	1N5350 – 13v
1N967 – 18V	1N4746 – 18V	1N5351 – 14V
1N968 – 20V	1N4747 – 20V	1N5352 – 15V
1N969 – 22V	1N4748 – 22V	1N5353 – 16V
1N970 – 24V	1N4749 – 24V	1N5354 – 17V
1N971 – 27V	1N4750 – 27V	1N5355 – 18V
1N972 – 30V	1N4751 – 30V	1N5356 – 19V
1N973 – 33V	1N4752 – 33V	1N5357 – 20V
1N974 – 36V	1N4753 – 36V	1N5358 – 22V
1N975 – 39V	1N4754 – 39V	1N5359 – 24V
1N976 – 43V	1N4755 – 43V	1N5360 – 25V
1N977 – 47V	1N4756 – 47V	1N5361 – 27V
1N978 – 51V	1N4757 – 51V	1N5362 – 28V
1N979 – 56V	1N4758 – 56V	1N5363 – 30V
1N980 – 62V	1N4759 – 62V	1N5364 – 33V
1N981 – 68V	1N4760 – 68V	1N5365 – 36V
1N982 – 75V	1N4761 – 75V	1N5366 – 39V
1N983 – 82V	1N4762 – 82V	1N5367 – 43V
1N984 – 91V	1N4763 – 91V	1N5368 – 47V
1N985 – 100V	1N4764 – 100V	1N5369 – 51V

Zener diodes are essential components in voltage regulation and protection circuits. This guide provides a detailed overview of three popular power ratings: 0.5W, 1W, and 5W Zener diode series, covering part numbers from 1N746 to 1N5369 and voltage ranges from 3.3V to 100V. Whether you’re designing a power supply, voltage reference, or surge protection circuit, having a complete voltage chart at your fingertips is invaluable for selecting the right

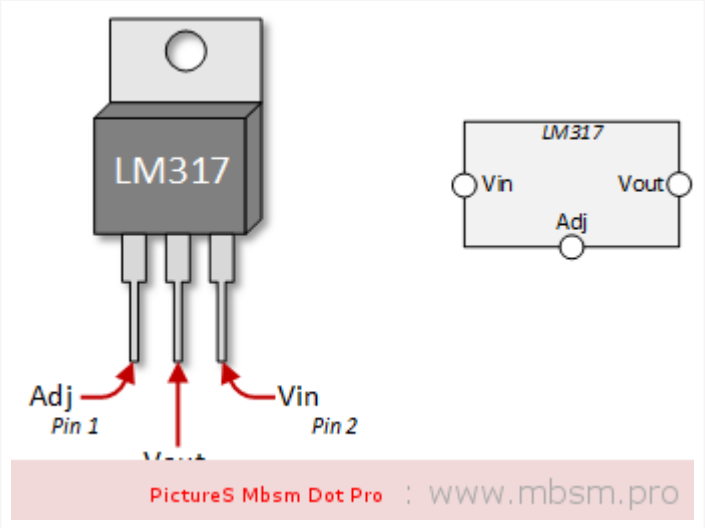
component.

Mbsm.pro , LM317 ,Voltage Regulator Pin Outs, Simple test, voltage regulators ics , Voltage regulator

Category: Développement,electronique
written by www.mbsm.pro | 8 January 2026

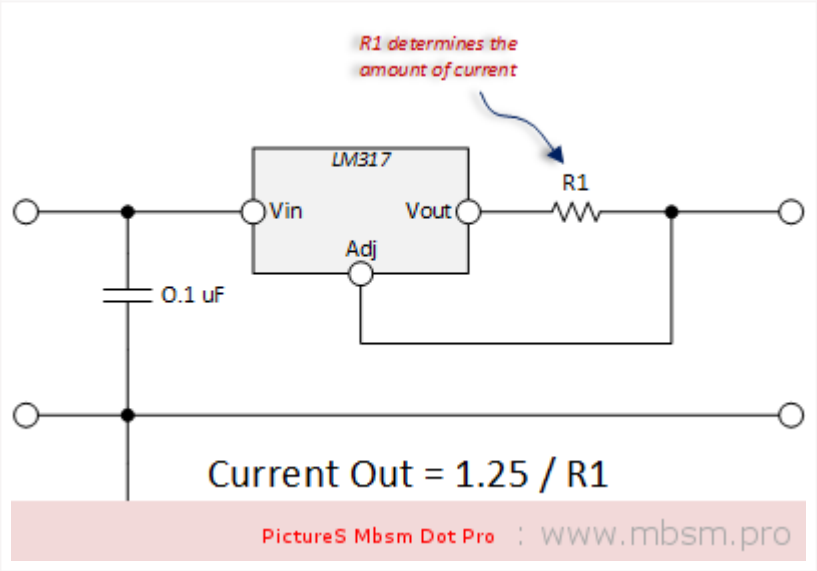


The LM317 is most commonly found in a TO220 package. It only has three pins and we will be using all of them in this tutorial.



The LM317 Voltage Regulator for Current Control

The use of an LM317 as a constant current source comes right from the data sheet. The schematic below shows how to configure the LM317 as a current regulator. It is the value of R1 that you will be concerned about and that value is determined by the type of LED you are using.



The math is really simple. The factor of 1.25 also comes from the data sheet. Let's walk through an example:

1. Lets say you wanted to control to 300 mA. You would determine that your optimum resistor is:
   R1 = 1.25 / 0.300 = 4.17 Ohms
2. Next you're going to poke around in your box of resistors to see what you've got. You probably won't find that 4.17 Ohm resistor, so you will want to try something close. I had a 4.7 Ohm resistor.
3. Now you're going to want to apply the formula to see what that gets you.
   Current Out = 1.25 / 4.7 = 266 mA.
4. Finally, we need to do a sanity check of the power rating of the resistor.

Here we will use **I^2 x R** to get the power dissipated by the resistor.

Power Dissipated by Resistor = 0.266^2 x 4.7 = 0.332 Watts *(a half watt resistor will do the trick)*