
5v1 watt water pump using solar energy

Placing a single 5V1 zener diode with a resistor is not a good idea. Zener-Transistor Regulator: Consists of a 5V6 zener (500mW or even smaller), a BD- series NPN transistor ...

The 1N4148 looks like this and a Zener diode looks the same. What is the most recommended way to distinguish or identify them visually?

I know that a regular summing amplifier does $V_{out} = -(a*V1 + b*V2 + c*V3)$ but how do I invert one of the gains?

The problem I am a beginner/novice using KiCad and in creating PCB's, so I do not know much about these things. After following tutorials from I managed to create ...

The Zener voltage is the voltage that will be developed across the reverse-biased diode when passing the I_z test current. Leakage current is the current that will flow at the ...

Hello everyone in the community! I'm facing a challenge with a circuit I recently built and I'm having a hard time getting the expected results. The circuit in question involves ...

In loop 1, the voltage sources 75V and 0.5V1 are in opposition to each other hence the effective voltage source is $(75 - 0.5V1)$. This is your V . Now, the voltage drop iR across ...

So, I've been staring at this problem for several hours now. I've watched videos on summing amplifiers, and the like--but nothing seems to show how to use 1 op amp in a circuit ...

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