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It might barely be on at all and this particular optocoupler seems to expect a fairly decent amount of current for the input. Treat it as a 1.2V LED and aim for 20mA current.

This article explains how to correctly bias optocouplers--covering LED current, current transfer ratio (CTR), and phototransistor setup--to keep your power supply accurate, stable, and ...

The output current available from a HCT gate to drive the optocoupler input is limited to 4mA, which is quite low for driving an optocoupler. The PC817 must then be capable of producing the necessary ...

How to Diagnose and Solve: Step 1: Check the load connected to the output. Ensure that it is within the recommended ratings for the PC817's output transistor (typically a collector current of ...

When testing optocouplers with increased temperature and current, the degrading mechanisms happen much faster than they would under normal operation conditions with smaller temperature and lower ...

Proper biasing of an optocoupler in SMPS feedback systems is essential to ensure accurate analog signal transmission across the isolation barrier. The LED side must be driven within ...

It describes the two main parameters of optocouplers and is obtained by dividing the output current of the transistor by the forward current of the emitting diode and converting the result in a percentage ...

By providing resistor R2, the cathode of the TL431 is able to raise to a high-enough voltage, eliminating current flow in the optocoupler's LED. Thus, the circuit design guarantees the minimum R6 current, ...

A crucial problem is that of the current transfer ratio, CTR, changing with time. The resulting optocoupler's gain change, $CTR = CTR_{final} - CTR_{initial}$, with time is referred to as CTR degradation.

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