Optocoupler Protection Circuit for Switching Power Supply

To help you choose and design with Avago Technologies isolation components, this Designer"s Guide contains popular application circuits and recom mended Avago optocouplers.

Triac and SCR Optocouplers: Designed for AC power control, these are perfect for switching high-voltage AC loads, such as in dimmer circuits or motor controls. They can handle ...

In general isolated power supplies, optocoupler isolation feedback is a simple and cost-effective method. However, there has been little in-depth research on the various connection ...

Figure 26 shows a typical switching test circuit in a common-emitter configuration, where the optocoupler LED is driven with a square waveform (Vin) whose amplitude is adjusted based on the ...

The main purpose of an optocoupler interface is to completely isolate the input circuit from the output circuit, which normally means there will be two completely separate power supplies, one for the input ...

The circuit consists of a pulse generator that can supply a common mode pulse across the optocoupler, from photodiode to transistor, and a means to control the ...

Numerous techniques and devices are available to the designers of optocoupler feedback circuits. The more traditional approaches utilize either an adjustable shunt regulator like the TL431 device or an ...

At its core, an optocoupler is a device that electrically isolates two circuits while allowing them to communicate with each other through light. This means that any current or voltage ...

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 ...

When the secondary load of the high-frequency transformer is overloaded or the switch circuit is faulty, there is no optocoupler power supply. The optocoupler controls the switch circuit to ...

Optocouplers can be ideally used for creating a perfectly isolated coupling across a low DC control circuit and a high AC mains based triac control circuit. It is recommended to keep the ...

Basic insulation is required in an optocoupler interface between a hazardous voltage circuit and a non-touchable extra low voltage (ELV) circuit. The most widely used insulation for optocouplers in switch ...

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