

Optocoupler Pin Functions



Overview

Complete guide on the PC817 optocoupler including 180-word introduction, pinout, features, working, equivalents, and detailed applications for electronics projects. An optocoupler (or opto-isolator) is a component that transfer signals between circuits using light. Optocouplers are very useful when you need to isolate different sections of a circuit, for example in power. The IR circuit can be designed by hand but we have a fully predesigned and small size integrated circuit IC knows as PC817 Optocoupler. It can be directly connected to any low voltage dc device or microcontroller.

Optocoupler Pin Functions



An optocoupler (also called an opto-isolator, photo-coupler, or optical isolator) is a solid-state semiconductor device that transfers electrical signals between two isolated circuits using optical ...



The diagram represents the pin configuration diagram and explains the functionality of each pin. In this pinout diagram of PC817, pin1 and pin2 are parts of the input side and pin3 - pin4 are output pins.



Explore the PC817 optocoupler's pinout, working principle, and applications. Learn how it provides electrical isolation and signal transfer.



An optocoupler (or opto-isolator) is a component that transfer signals between circuits using light. In this guide, you'll learn how they work and how you can use one in your own projects.



- Pin-1: The Anode (+) pin inputs the logic signal to the internal IR.
- Pin-2: The Cathode (-) pin is connected to the common ground with the circuit and power supply. Phototransistor Output. ...



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The pin configuration of PC817 Optocoupler is shown below, This IC includes 4 pins like 2 input pins and 2 output pins where each pin and its functionality is discussed below.



In order to design a functionally robust and reliable application with optocouplers, it is essential to understand not only the device's main parameters and parasitic elements, but also their tolerances ...



Complete PC817 optocoupler isolation module guide. Covers 3.6V–30V wiring, jumper settings, resistor selection, Arduino/ESP32/PLC hookup & troubleshooting.



In this tutorial, I am going to talk about the PC817 Optocoupler which is one of the most common and inexpensive 4-pin optocouplers. An Optocoupler also known as Photocoupler or Optical Isolator is a ...

PC817 Optocoupler IntroductionHow PC817 Works?PC817 ExamplesPC817 Optocoupler FeaturesSpecificationsPC817 Applications It comes with 4-pins in two packages, DIP and SMT.The device has an internal protection form of electrical isolation. The protection is for both input and output. It can protect up to HIGH 5KV from electric isolation.The optocoupler can be used with an external resistor with high voltage devices to operate with low voltage devices. It comes with 4-pins in two packages, DIP and SMT.The device has an internal protection form of electrical isolation. The protection is for both input and output. It can protect up to HIGH 5KV from electric isolation.The optocoupler can be used with an external resistor with high voltage devices to operate with low voltage devices.The optocoupler can operate with any kind of device with internal interfaces like with TTL device, Microcontrollers and even with HIGH DC voltage with some internal resistors.See moreNew content will be added above the current area of focus upon selectionSee more on microcontrollerslab

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.b_imgcap_alttitle p strong,.b_imgcap_alttitle .b_factrow
strong{color:#767676}#b_results .b_imgcap_alttitle{line-height:22px}.b_imgcap_altit
le{display:flex;flex-direction:row-reverse;gap:var(--mai-smtc-padding-card-nested-
default)}.b_imgcap_alttitle .b_imgcap_img{flex-shrink:0;display:flex;flex-
direction:column}.b_imgcap_alttitle .b_imgcap_main{min-
width:0;flex:1}.b_imgcap_alttitle .b_imgcap_img>div,.b_imgcap_alttitle .b_imgcap_img
a{display:flex}.b_imgcap_alttitle .b_imgcap_img img{border-radius:var(--mai-smtc-
corner-card-default)}.b_hList img{display:block}.b_imagePair ner
img{display:block;border-radius:6px}.b_algo .vttv2 img{border-radius:0}.b_hList
.cico{margin-bottom:10px}.b_title .b_imagePair> ner,.b_vList>li>.b_imagePair>
ner,.b_hList .b_imagePair> ner,.b_vPanel>div>.b_imagePair> ner,.b_gridList
.b_imagePair> ner,.b_caption .b_imagePair> ner,.b_imagePair>
ner>.b_footnote,.b_poleContent .b_imagePair> ner{padding-bottom:0}.b_imagePair>
ner{padding-bottom:10px;float:left}.b_imagePair.reverse>
ner{float:right}.b_imagePair .b_imagePair:last-child:after{clear:none}.b_algo .b_title .
b_imagePair{display:block}.b_imagePair.b_cTxtWithImg>*{vertical-
align:middle;display:inline-block}.b_imagePair.b_cTxtWithImg>
ner{float:none;padding-right:10px}.b_imagePair.square_s>
ner{width:50px}.b_imagePair.square_s{padding-left:60px}.b_imagePair.square_s>
ner{margin:2px 0 0 -60px}.b_imagePair.square_s.reverse{padding-left:0;padding-
right:60px}.b_imagePair.square_s.reverse> ner{margin:2px -60px 0
0}.b_ci_image_overlay:hover{cursor:pointer}
sightsOverlay,#OverlayIframe.b_mcOverlay sightsOverlay{position:fixed;top:5%;left:
5%;bottom:5%;right:5%;width:90%;height:90%;border:0;border-radius:15px;margin:0
;padding:0;overflow:hidden;z-index:9;display:none}#OverlayMask,#OverlayMask.b_
mcOverlay{z-index:8;background-
color:#000;opacity:.6;position:fixed;top:0;left:0;width:100%;height:100%}ElProCus
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