

DIY Kit 44. SWITCHED PCB-MOUNTED 12V/2.5A RELAY

INTRODUCTION

This Kit has added a transistor switch to Kit 43. A signal + in of over 2.5V will turn the transistor on. To turn it off signal + should be brought to zero.

Diode D1 provides a discharge path for the back-emf generated by the collapsing magnetic field of the relay coil when the power is removed. Assembly is very easy and the only thing to make sure is that you get the diode around the correct way. The bar on the diode should match the bar on the overlay.

We have used a Goodsky RUDH-SH-112D 12V relay or equivalent. Coil resistance 400 ohm. It is rated to switch 120VAC at 10A.

COMPONENTS	
Kit 44 PCB	1
2 pole terminal block	2
3 pole terminal block	1
Relay RUDH-SH-112D, or equivalent	1
1N4004 diode	1
5mm red LED	1

