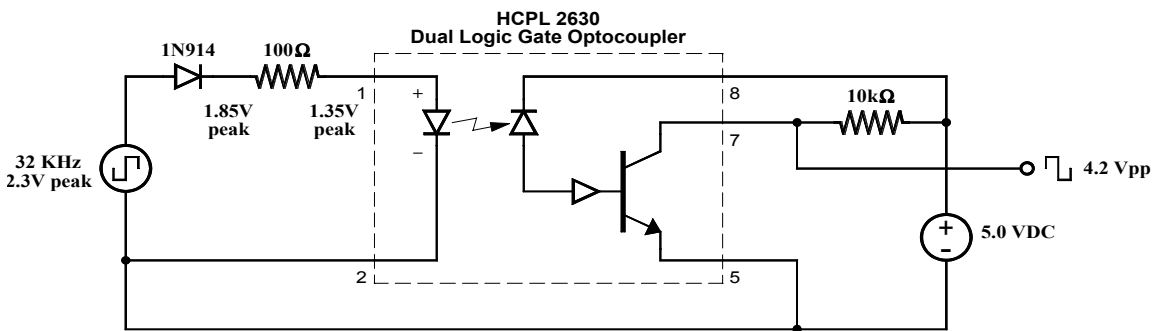


HCPL-2630 High Speed Logic Gate Optocoupler Test

Below is the test circuit for an Optoelectronics HCPL-2630 dual-channel logic gate optocoupler. The two outputs have common power supply terminals so you would have to use two separate ICs to drive two MOSFETs having different gate drive power supplies. Single-channel optocouplers are available that have the same specifications. They are 6N137, HCPL-2601, and HCPL-2611.

Test Circuit



Looking at the above circuit on an oscilloscope (see next page), the blue trace (upper trace) is the 32 kHz square wave at the function generator. The red trace is the optocoupler output. My oscilloscope (Pico ADC212) does not have adequate time resolution to show the propagation delay, which is typically 45 ns for both the rising and falling transitions according to the data sheet.

