

CPC1056N – 60 V, 75 mA 1-Form-A Normally Open Relay

Problem / Solution

Battery powered and time critical applications require low input operating current, low output leakage currents and short response times. The CPC1056N is a 60 V, single-pole, normally-open (1-Form-A) solid state relay in SOP-4 pin package on tape and reel. It uses optically coupled MOSFET technology to provide 1500 V_{RMS} of input-to-output isolation and features short turn-on and turn-off times of 3 ms for high-speed operation. The CP1056N requires only 0.5 mA of LED current, and its input is compatible with standard TTL and CMOS levels, allowing direct interfacing with many control devices.

Technical Resources:



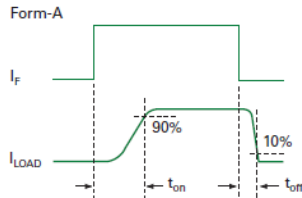
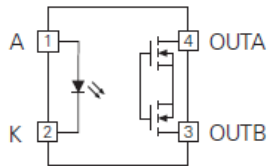
Series Page



Datasheet



Tech-Info



Features

- 60 V, 75 mA capability
- Input/Output Isolation 1500 V_{RMS}
- Compliant with EN50130-4 standard
- AC or DC load operation
- $t_{on}/t_{off} = 3$ ms
- Low LED current of 0.5 mA
- TTL/CMOS compatible logic inputs
- Solid state design with no moving parts

Benefits

- Load current and voltage rating for PIR and security applications
- Meets basic galvanic isolation requirements
- Simplifies qualification in security equipment
- Improved for faster switching
- Can directly be controlled from microcontrollers
- Bidirectional current flow
- No EMI/RFI generation compared to mechanical relays

Markets / Applications

- PIR detectors
- Instrumentation
- Automatic test equipment
- Medical equipment
- Industrial controls
- Utility meters
- EV charging infrastructure



SOP-4 Pin