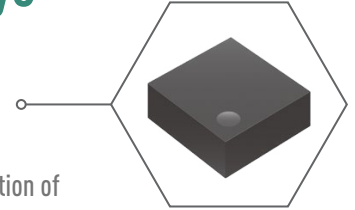


## Line Extension

# PhotoMOS CC TSON 1 Form A CxR Series Solid State Relays

## Super Miniature, TSON Package, Capacitive-Coupled Isolation for High-Temp Now Available In 60, 40 and 100V!



Panasonic is pleased to announce the extended **PhotoMOS CC TSON 1 Form A CxR Series** product line, the next generation of sub-miniature Solid State Relay technology now available in 60V, 40V and 100V options! The **PhotoMOS CC Series** is a revolution in size and performance. The internal switching mechanism contains an oscillation circuit as well as a built-in Capacitor-Coupled Isolation driver IC. This differs from traditional PhotoMOS products which use an optical coupled isolation.

By replacing the LED circuit, the package size can be substantially decreased, while also lowering power consumption. For high-density mounting applications, the TSON package of the **PhotoMOS CC Series** requires 46% less board space than SON package types. The temperature performance also increases with guaranteed performance up to 105°C (221°F), for industrial applications. This robust performance is enhanced with a fast switching speed, which is afforded by a voltage driven input circuit. LED based models use a current driven method, which inherently has a slower response.

### How it Works:

When signal voltage is applied to the input terminal, the oscillation circuit in the driver IC operates. The oscillating input signal is converted to DC voltage by the rectifier circuit after passing through the isolation capacitor in the driver IC. The DC voltage that was converted then passes through the control circuit in the driver IC and charges the MOSFET gate on the output side. When the gate voltage of MOSFET supplied from the driver IC reaches a preset voltage value, the MOSFET begins to conduct and turns on the load.

## Features

- Sub-Miniature TSON Package (0.8 x 1.95 x 1.8 mm)
- Low-Current Consumption of 0.2A Max.
- High-Temp Performance, Guaranteed up to 105°C
- Voltage Driven Input Circuit

## Benefits

- Saves Space and Facilitated High-Density Mounting
- Energy Savings
- Robust Performance in Industrial Applications
- Faster Switching Speeds

## Industries

- Test & Measurement
- Telecommunications
- Industrial Electronics
- Security

## Applications

- IC Tester, Probe Card, Board Tester
- Network Switches, Modems, Multiplexers
- Electric and Gas Meters
- Cameras, Fire Alarms, Smoke/Heat Detectors