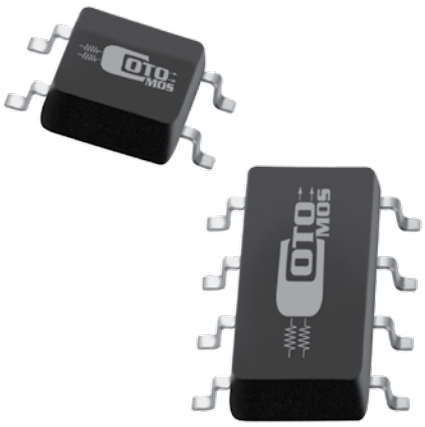


## CotoMOS® C574S/C674S

The C574S and C674S feature current switching capability to 70mA with a low on resistance of 50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

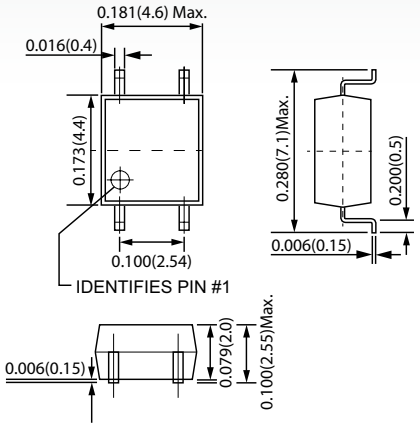
## C574S/C674S Features

- Contact Form: C574S: 1B / C674S: 2B
- Load Voltage: 400V Maximum
- Operation LED Current: 3.0mA Maximum
- Load Current: C574S: 70mA Maximum / C674S: 60mA Maximum
- On-Resistance: 50Ω Maximum
- Output Capacitance: 165pF Typical
- Low Off-State Leakage Current: 10μA Maximum

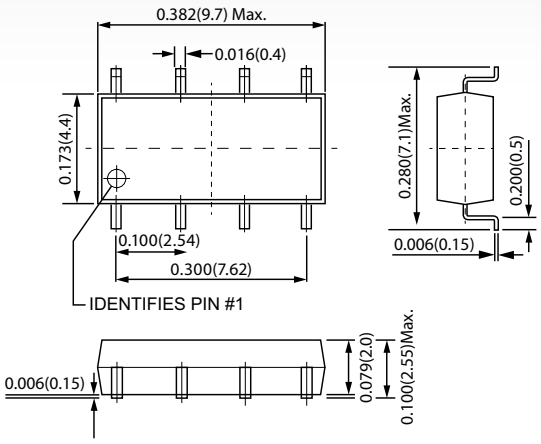
## DIMENSIONS

*in Inches (Millimeters)*

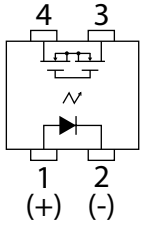
C574S




C674S

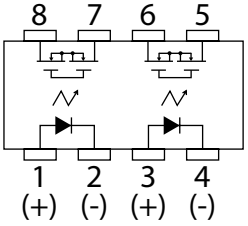



### TERMINAL IDENTIFICATION




| | |
|---|---|
| 1: Anode (LED)<br>2: Cathode (LED) | 3,4: Drain (MOSFET) |

### TERMINAL IDENTIFICATION




| | |
|---|---|
| 1,3: Anode (LED)<br>2,4: Cathode (LED) | 5,6,7,8: Drain (MOSFET) |

## C574S/C674S MAXIMUM RATINGS (Ambient Temperature: 25°C)

| Parameters | Symbol | Units | Value |
|---|---|---|---|
| **INPUT SPECIFICATIONS** | | | |
| Continuous LED Current | $I_F$ | mA | 50 |
| Peak LED Current | $I_{FP}$ | mA | 500 |
| LED Reverse Voltage | $V_R$ | V | 5 |
| Input Power Dissipation | $P_{in}$ | mW | 75 |
| **OUTPUT SPECIFICATIONS** | | | |
| Load Voltage | $V_L$ | V (AC peak or DC) | 400 |
| Load Current | $I_L$ | mA | 70 (1Ch) / 60 (2Ch) |
| Peak Load Current | $I_{Peak}$ | A | 0.6 |
| Output Power Dissipation | $P_{Out}$ | mW | 300 (1Ch) / 450 (2Ch) |
| **RELAY SPECIFICATIONS** | | | |
| Total Power Dissipation | $P_T$ | mW | 350 (1Ch) / 500 (2Ch) |
| I/O Breakdown Voltage | $V_{I/O}$ | Vrms | 1500 |
| Operating Temperature | $T_{opr}$ | °C | -40 ~ +85 |
| Storage Temperature | $T_{Stg}$ | °C | -40 ~ +100 |

## C574S/C674S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

| Parameters | Symbol | Test Conditions | Units | Min | Typ | Max |
|---|---|---|---|---|---|---|
| **INPUT** | | | | | | |
| LED Forward Voltage | $V_F$ | $I_F$=10mA | V | 1.0 | | 1.5 |
| Operation LED Current | $I_{F\ On}$ | | mA | | 0.9 | 3.0 |
| Recovery LED Voltage | $V_{F\ Off}$ | | V | 0.5 | | |
| **OUTPUT** | | | | | | |
| On-Resistance Drain to Drain | $R_{On}$ | $I_F$=5mA, $I_L$=Rating<br>Time to flow is within 1 sec. | Ω | | 30 | 50 |
| Off-State Leakage Current | $I_{Leak}$ | $V_L$=400V | μA | | | 10 |
| Output Capacitance | $C_{Out}$ | $V_L$=0V, f=1MHz | pF | | 165 | |
| **TRANSMISSION** | | | | | | |
| Turn-On Time | $T_{On}$ | $I_F$=5mA, $I_L$=Rating | ms | | 0.05 | 3.0 |
| Turn-Off Time | $T_{Off}$ | | ms | | 0.05 | 1.0 |
| **COUPLED** | | | | | | |
| I/O Insulation Resistance | $R_{I/O}$ | | Ω | $10^9$ | | |
| I/O Capacitance | $C_{I/O}$ | f=1MHz | pF | | 1.3 | |

**Environmental Ratings:**

*Operating Temp: -40°C to +85° C; Storage Temp: –40 to +100 C.*
*All electrical parameters measured at 25° C unless otherwise specified.*