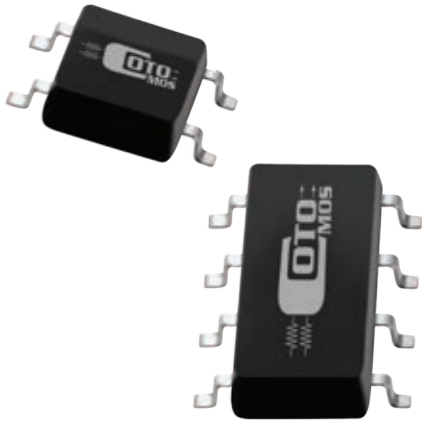


## CotoMOS C574S/C674S

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](http://www.cotorelay.com).



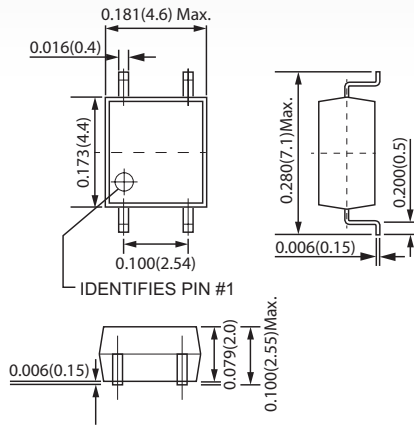
### C574S/C674S Features

- ▶ 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

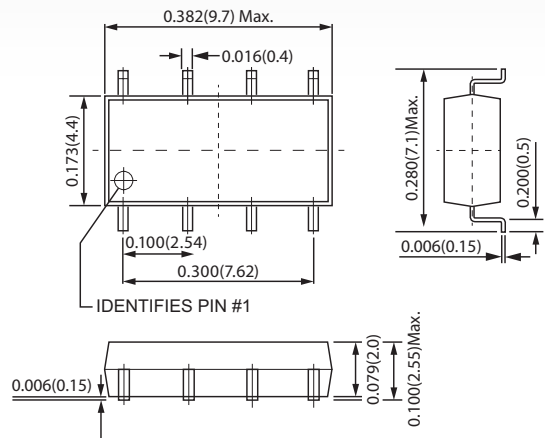
## DIMENSIONS

*in Inches (Millimeters)*

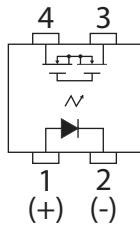
C574S



C674S



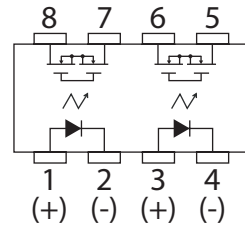
### TERMINAL IDENTIFICATION



1: Anode (LED)  
2: Cathode (LED)

3,4: Drain (MOSFET)

### TERMINAL IDENTIFICATION



1,3: Anode (LED)  
2,4: Cathode (LED)

5,6,7,8: Drain (MOSFET)

<b>C574S/C674S MAXIMUM RATINGS (Ambient Temperature: 25°C)</b>			
<b>Parameters</b>	<b>Symbol</b>	<b>Units</b>	<b>Value</b>
<b>INPUT SPECIFICATIONS</b>			
Continuous LED Current	I <sub>F</sub>	mA	50mA
Peak LED Current	I <sub>FP</sub>	mA	500mA
LED Reverse Voltage	V <sub>R</sub>	V	5V
Input Power Dissipation	P <sub>in</sub>	mW	75mW
<b>OUTPUT SPECIFICATIONS</b>			
Load Voltage	V <sub>L</sub>	V	400V (AC peak or DC)
Load Current	I <sub>L</sub>	A	70mA (1Ch) / 60mA (2Ch)
Peak Load Current	I <sub>Peak</sub>	A	0.6A
Output Power Dissipation	P <sub>Out</sub>	mW	300mW (1Ch) / 450mW (2Ch)
<b>RELAY SPECIFICATIONS</b>			
Total Power Dissipation	P <sub>T</sub>	mW	350mW (1Ch) / 500mW (2Ch)
I/O Breakdown Voltage	V <sub>I/O</sub>	V	1500Vrms
Operating Temperature	T <sub>Opr</sub>		-40°C ~ +85°C
Storage Temperature	T <sub>Stg</sub>		-40°C ~ +100°C

<b>C574S/C674S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)</b>						
<b>Parameters</b>	<b>Symbol</b>	<b>Test Conditions</b>	<b>Units</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>
<b>INPUT</b>						
LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	V	1.0		1.5
Operation LED Current	I <sub>F On</sub>		mA		0.9	3.0
Recovery LED Voltage	V <sub>F Off</sub>		V	0.5		
<b>OUTPUT</b>						
On-Resistance Drain to Drain	R <sub>On</sub>	I <sub>F</sub> =5mA, I <sub>L</sub> =Rating Time to flow is within 1 sec.	Ω		30	50
Off-State Leakage Current	I <sub>Leak</sub>	V <sub>L</sub> =400V	μA			10
Output Capacitance	C <sub>Out</sub>	V <sub>L</sub> =0V, f=1MHz	pF		165	
<b>TRANSMISSION</b>						
Turn-On Time	T <sub>On</sub>	I <sub>F</sub> =5mA, I <sub>L</sub> =Rating	ms		0.05	3.0
Turn-Off Time	T <sub>Off</sub>		ms		0.05	1.0
<b>COUPLED</b>						
I/O Insulation Resistance	R <sub>I/O</sub>		Ω	10 <sup>9</sup>		
I/O Capacitance	C <sub>I/O</sub>	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.*