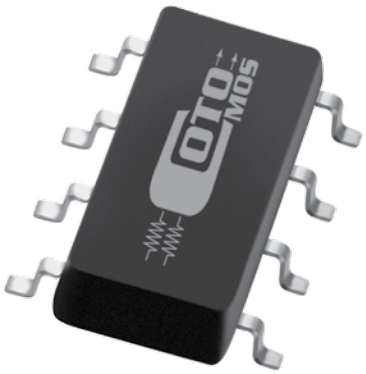


CotoMOS® C774S

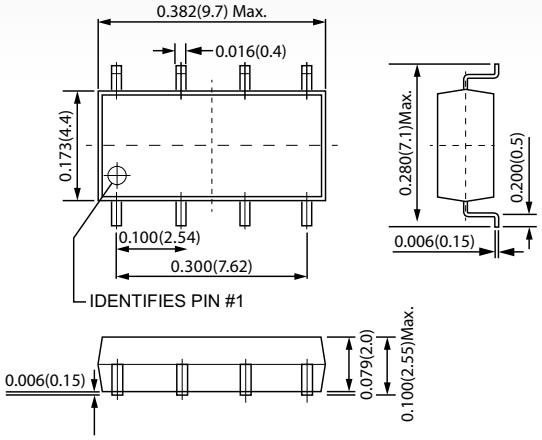
The C774S features current switching capability to 80/60mA with a low on resistance of 30/50Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 400V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

C774S Features

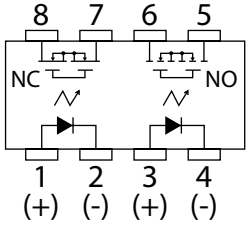
- Contact Form: 1A+1B
- Load Voltage: 400V Maximum
- Operation LED Current: 3.0mA Maximum
- Load Current: 80mA Maximum (NO) 60mA Maximum (NC)
- On-Resistance: 30Ω Maximum (NO) 50Ω Maximum (NC)
- Output Capacitance: 115pF Typical (NO) 165pF Typical (NC)
- Low Off-State Leakage Current: 1.0μA Maximum (NO) 10μA Maximum (NC)

DIMENSIONS

in Inches (Millimeters)



TERMINAL IDENTIFICATION



1,3: Anode (LED) 2,4: Cathode (LED)	5,6,7,8: Drain (MOSFET)

C774S 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	80 (NO) / 60 (NC)
Peak Load Current	I_{Peak}	A	0.4
Output Power Dissipation	P_{Out}	mW	400
RELAY SPECIFICATIONS			
Total Power Dissipation	P_T	mW	450
I/O Breakdown Voltage	$V_{I/O}$	Vrms	1500
Operating Temperature	T_{opr}	°C	-40 ~ +85
Storage Temperature	T_{Stg}	°C	-40 ~ +100

C774S 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 (NO), I_F=0mA (NC), I_L=Rating Time to flow is within 1 sec.	Ω		24 (NO) 30 (NC)	30 (NO) 50 (NC)
Off-State Leakage Current	I_{Leak}	I_F=0mA (NO), I_F=5mA (NC), V_L=400V	μA			1 (NO) 10 (NC)
Output Capacitance	C_{Out}	I_F=0mA (NO), I_F=5mA (NC) V_L=0V, f=1MHz	pF		115 (NO) 165 (NC)	
TRANSMISSION						
Operate Time	T_{On} (NO) T_{Off} (NC)	I_F=0mA → 5mA (NC), I_L=Rating	ms		0.25 (NO) 0.5 (NC)	2.0
Recovery Time	T_{Off} (NO) T_{On} (NC)	I_F=0mA → 5mA (NC), I_L=50mA	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.