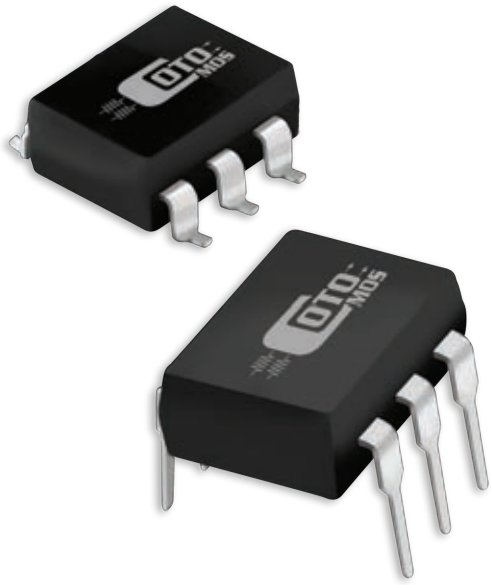


CotoMOS CT474/CS474

The CT474 and CS474 feature current switching capability to 90mA 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.

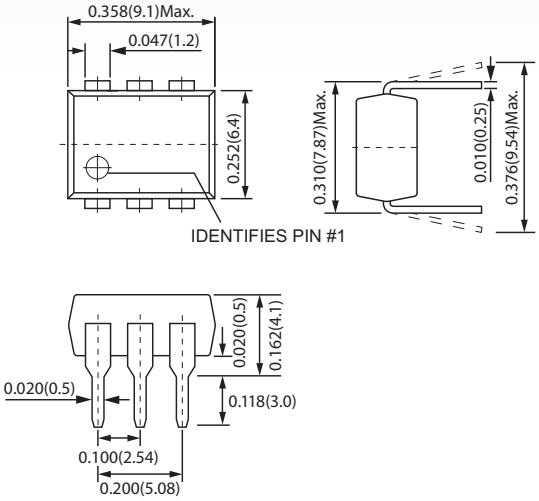
CT474/CS474 Features

- Contact Form: 1b
- Load Voltage: 400V Maximum
- Operation LED Current: 3.0mA Maximum
- Load Current: 90mA Maximum
- On-Resistance: 50Ω Maximum
- Low Off-State Leakage Current: 10μA Maximum
- I/O Breakdown Voltage: 1500Vrms Minimum
- Suffix -H for I/O Breakdown Voltage: 5000Vrms Minimum

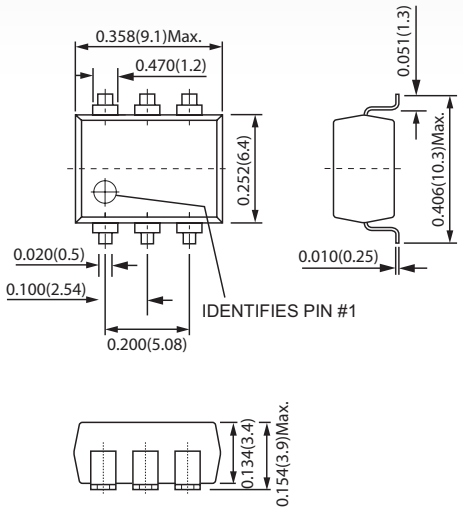
DIMENSIONS

in Inches (Millimeters)

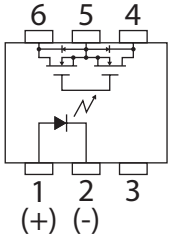
CT474



CS474



TERMINAL IDENTIFICATION



1: Anode (LED) 2: Cathode (LED) 3: NC	4,6: Drain (MOS FET) 5: Source (MOS FET)

tel: (401) 943.2686 | fax: (401) 942.0920

CT474/CS474 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I_F	mA	50mA
Peak LED Current	I_{FP}	mA	500mA
LED Reverse Voltage	V_R	V	5V
Input Power Dissipation	P_{in}	mW	75mW
OUTPUT SPECIFICATIONS			
Load Voltage	V_L	V	400V (AC peak or DC)
Load Current	I_L	A	90mA
Peak Load Current	I_{Peak}	A	0.6A
Output Power Dissipation	P_{Out}	mW	450mW
RELAY SPECIFICATIONS			
Total Power Dissipation	P_T	mW	500mW
I/O Breakdown Voltage	$V_{I/O}$	V	1500Vrms
Operating Temperature	T_{opr}		-40°C ~ +85°C
Storage Temperature	T_{Stg}		-40°C ~ +100°C

CT474/CS474 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=10mA, I_L=Rating 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=10mA, I_L=Rating	ms		0.35	2.0
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.