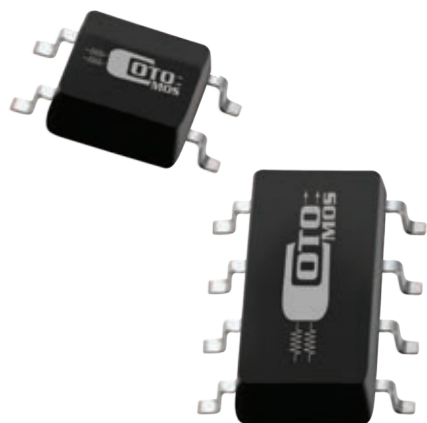




CotoMOS C247S/C347S

The C247S and C347S feature high current switching capability to 1.25A with a low on resistance of 0.5Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 80V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

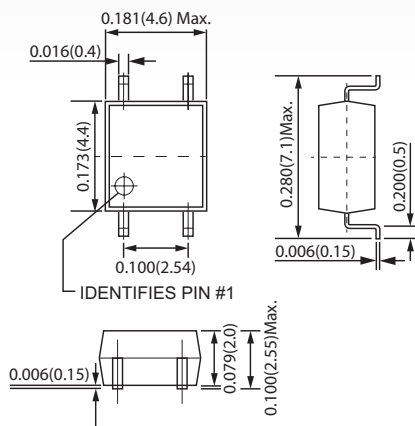
C247S/C347S Features

- ▶ Contact Form: C247S: 1a / C347S: 2a
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: C247S: 1.25A Maximum / C347S: 1.0A Maximum
- ▶ On-Resistance: 0.15Ω Typical
- ▶ Output Capacitance: 190pF Typical
- ▶ Low Off-State Leakage Current: 1.0μA Maximum

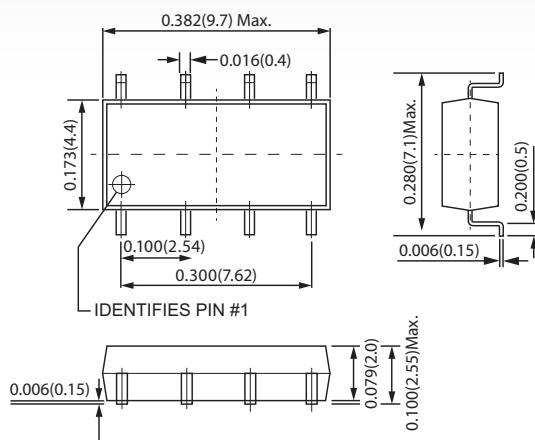
DIMENSIONS

in Inches (Millimeters)

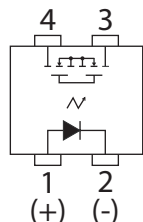
C247S



C347S

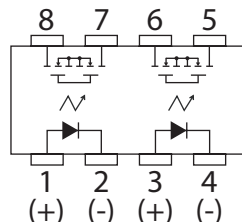


TERMINAL IDENTIFICATION



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)

C247S/C347S 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	80V (AC peak or DC)
Load Current	I _L	A	1.25A (1Ch) / 1.0A (2Ch)
Peak Load Current	I _{Peak}	A	3.0A
Output Power Dissipation	P _{Out}	mW	350mW (1Ch) / 450mW (2Ch)
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	400mW (1Ch) / 500mW (2Ch)
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

C247S/C347S 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	1.37	1.5
Operation LED Current	I _{F On}		mA		1.2	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 Time to flow is within 1 sec.	Ω		0.15	0.5
Off-State Leakage Current	I _{Leak}	V _L =80V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		190	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =5mA, I _L =Rating	ms		0.6	5.0
Turn-Off Time	T _{Off}		ms		0.06	0.5
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.