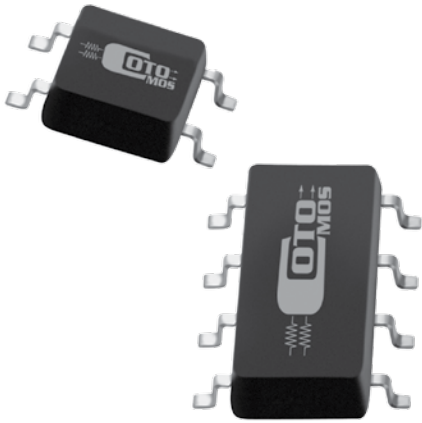


## CotoMOS® C247S/C347S

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



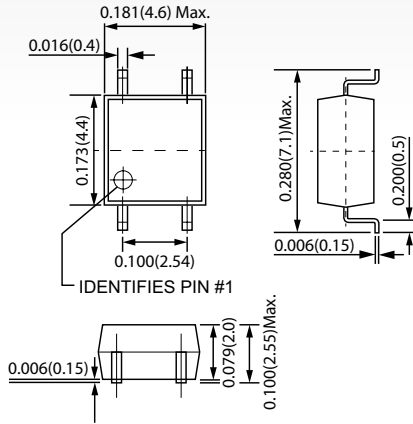
### C247S/C347S Features

- ▶ 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

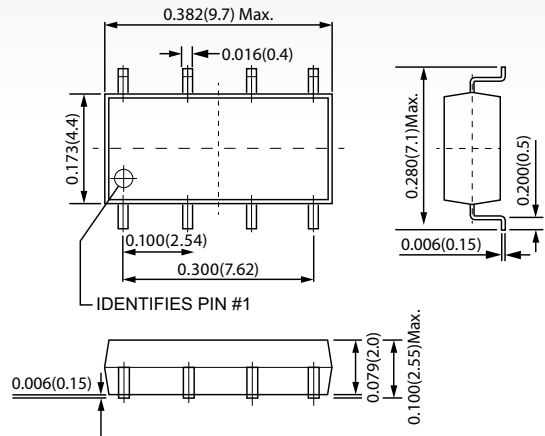
## DIMENSIONS

*in Inches (Millimeters)*

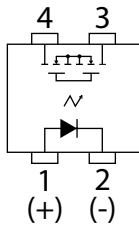
C247S



C347S



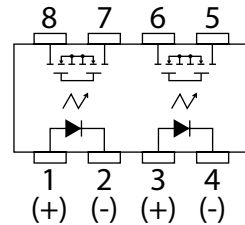
### TERMINAL IDENTIFICATION



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)

<b>C247S/C347S MAXIMUM RATINGS (Ambient Temperature: 25°C)</b>			
Parameters	Symbol	Units	Value
<b>INPUT SPECIFICATIONS</b>			
Continuous LED Current	I <sub>F</sub>	mA	50
Peak LED Current	I <sub>FP</sub>	mA	500
LED Reverse Voltage	V <sub>R</sub>	V	5
Input Power Dissipation	P <sub>in</sub>	mW	75
<b>OUTPUT SPECIFICATIONS</b>			
Load Voltage	V <sub>L</sub>	V (AC peak or DC)	80
Load Current	I <sub>L</sub>	A	1.25 (1Ch) / 1.0 (2Ch)
Peak Load Current	I <sub>Peak</sub>	A	3.0
Output Power Dissipation	P <sub>Out</sub>	mW	350 (1Ch) / 450 (2Ch)
<b>RELAY SPECIFICATIONS</b>			
Total Power Dissipation	P <sub>T</sub>	mW	400 (1Ch) / 500 (2Ch)
I/O Breakdown Voltage	V <sub>I/O</sub>	V <sub>rms</sub>	1500
Operating Temperature	T <sub>Opr</sub>	°C	-40 ~ +85
Storage Temperature	T <sub>Stg</sub>	°C	-40 ~ +100

<b>C247S/C347S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)</b>						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
<b>INPUT</b>						
LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	V	1.0	1.37	1.5
Operation LED Current	I <sub>F On</sub>		mA		1.2	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		0.15	0.5
Off-State Leakage Current	I <sub>Leak</sub>	V <sub>L</sub> =80V	μA			1.0
Output Capacitance	C <sub>Out</sub>	V <sub>L</sub> =0V, f=1MHz	pF		190	
<b>TRANSMISSION</b>						
Turn-On Time	T <sub>On</sub>	I <sub>F</sub> =5mA, I <sub>L</sub> =Rating	ms		0.6	5.0
Turn-Off Time	T <sub>Off</sub>		ms		0.06	0.5
<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.

# C247S/C347S GRAPHS

