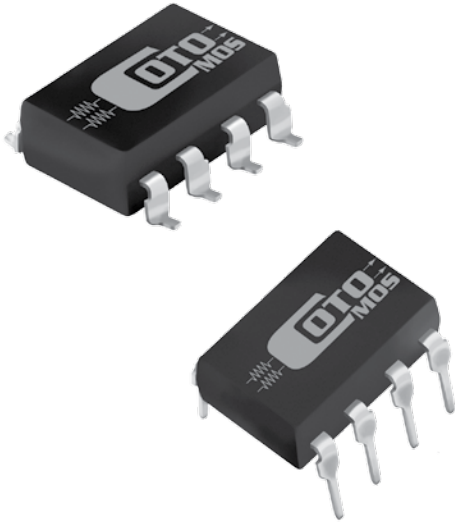


### CotoMOS® CTA17/CSA17

The CTA17 and CSA17 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](http://www.cotorelay.com).

### CTA17/CSA17 Features

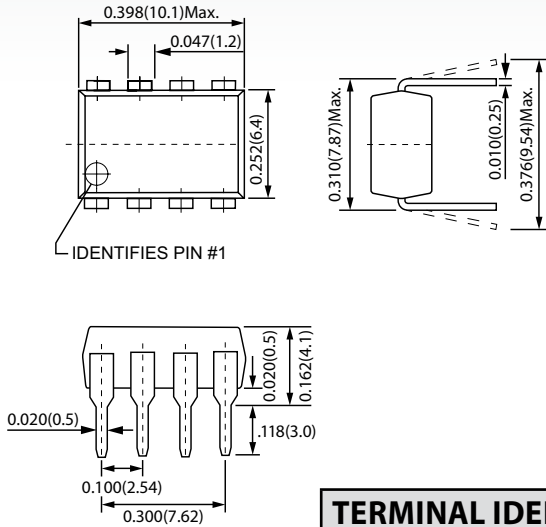
- ▶ Contact Form: 1A
- ▶ Load Voltage: 350V Minimum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 120mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 1μA Maximum
- ▶ I/O Breakdown Voltage: 3750Vrms Minimum



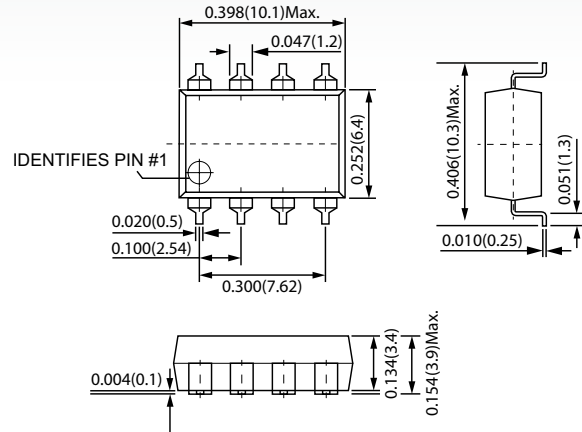
## DIMENSIONS

*in Millimeters*

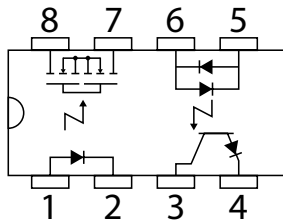
### CTA17



### CSA17



### TERMINAL IDENTIFICATION



1: +LED - MOS Relay	5: LED - Phototransistor +/-
2: -LED - MOS Relay	6: LED - Phototransistor +/-
3: Collector - Phototransistor +/-	7: Load - MOS Relay Output
4: Emitter - Phototransistor +/-	8: Load - MOS Relay Output

<b>CTA17/CSA17 MAXIMUM RATINGS (Ambient Temperature: 25°C)</b>			
Parameters	Symbol	Units	Value
<b>INPUT SPECIFICATIONS</b>			
Continuous LED Current	I <sub>F</sub>	mA	50mA
Peak LED Current	I <sub>FP</sub>	mA	1A
LED Reverse Voltage	V <sub>R</sub>	V	5V
Input Power Dissipation	P <sub>in</sub>	mW	150mW
<b>OUTPUT SPECIFICATIONS</b>			
Load Voltage	V <sub>L</sub>	V	350V (AC peak or DC)
Load Current	I <sub>L</sub>	A	120mA
Peak Load Current	I <sub>Peak</sub>	A	350mA
Output Power Dissipation	P <sub>out</sub>	mW	450mW
<b>RELAY SPECIFICATIONS</b>			
Total Power Dissipation	P <sub>T</sub>	mW	600mW
I/O Breakdown Voltage	V <sub>I/O</sub>	V	3750Vrms

<b>CTA17/CSA17 RELAY ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)</b>							
	Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
<b>Input Pin (1,2)</b>	LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	V	0.9	1.2	1.4
	Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	uA			10
	Operation LED Current	I <sub>F On</sub>		mA		0.7	3.0
	Recovery LED Voltage	V <sub>F Off</sub>		V	0.5	1.1	
<b>Output Pin (7,8)</b>	Load Voltage (Peak)	V <sub>L</sub>		V	350		
	Load Current (Continuous)	I <sub>L</sub>		mA			120
	Peak Load Current	I <sub>Peak</sub>		mA			350
	On-Resistance	R <sub>On</sub>		Ω		19	30
	Off-State Leakage Current	I <sub>Leak</sub>	V <sub>L</sub> =350V	μA			1.0
<b>TRANSMISSION</b>							
	Turn-On Time	T <sub>On</sub>	I <sub>F</sub> =5mA, V <sub>L</sub> =20V	ms		0.3	2.5
	Turn-Off Time	T <sub>Off</sub>		ms		0.04	1.0
<b>COUPLED</b>							
	Output Capacitance	C <sub>Out</sub>	f=1MHz	pF		115	

<b>CTA17/CSA17 DETECTOR ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)</b>							
	Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
<b>Input Pin (5,6)</b>	LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =±10mA	V	0.9	1.2	1.5
<b>Output Pin (3,4)</b>	C-E Breakdown Voltage	V <sub>ceo</sub>	I <sub>c</sub> =0.1mA	V	35		
	E-C Breakdown Voltage	V <sub>ceo</sub>	I <sub>e</sub> =0.1mA	V	5		
	Collector Dark Current	I <sub>ceo</sub>	V <sub>ce</sub> =5V, I <sub>F</sub> =0mA	nA			500
	Collector Saturation Voltage	V <sub>ce(sat)</sub>	I <sub>F</sub> =±16mA, I <sub>c</sub> =2mA	V			0.5
	Current Transfer Ratio	CTR	I <sub>F</sub> =±6mA, V <sub>ce</sub> =0.5V	%	33		

**Environmental Ratings:**

Operating Temp: -40°C to +85°C; Storage Temp: -40°C to +120°C.  
All electrical parameters measured at 25°C unless otherwise specified.

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