



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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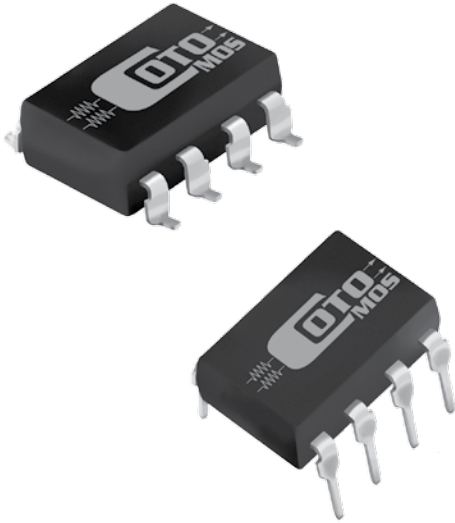


### CotoMOS® CTA17/CSA17

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

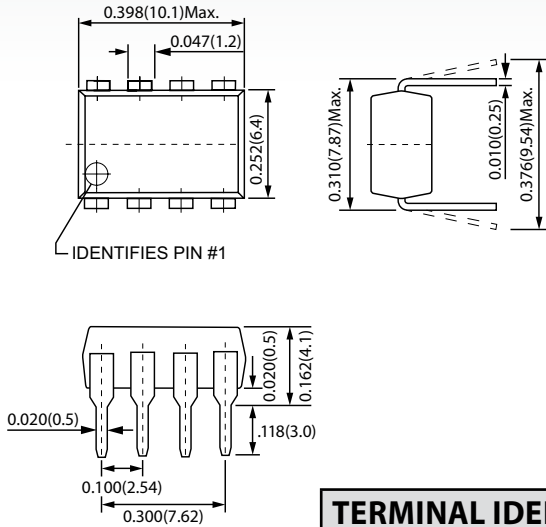
- ▶ Contact Form: 1A
- ▶ Load Voltage: 350V Minimum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 120mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 1μA Maximum
- ▶ I/O Breakdown Voltage: 3750Vrms Minimum



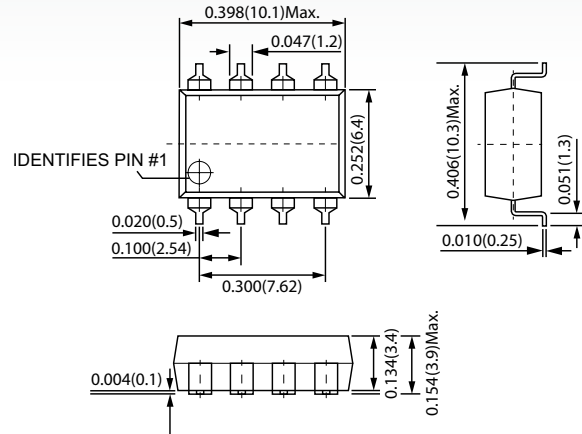
## DIMENSIONS

*in Millimeters*

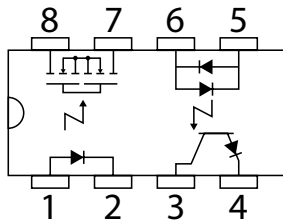
### CTA17



### 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.