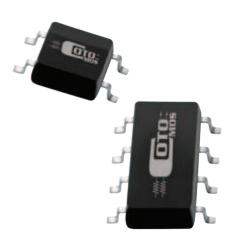
## C231S/C331S



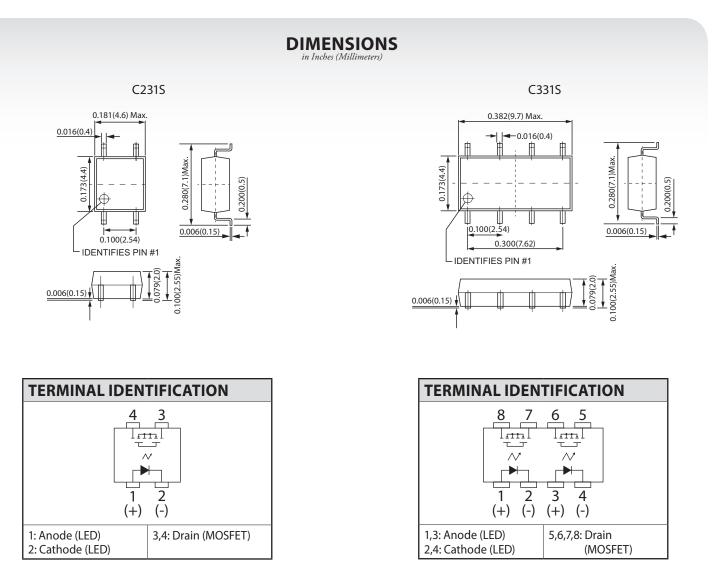
ade

## CotoMOS C231S/C331S

When small size and high performance are needed, the SOP package, such as the C231S or C331S, is the industry choice. Both the C231S and the C331S feature high load voltage capability and the opportunity for efficient board layout, saving precious board space without compromising on performance. In addition, the C331S offers two fully-independent form A channels for further space savings. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

## C231S/C331S Features

- ▶ Contact Form: C231S: 1a / C331S: 2a
- ▶ Load Voltage: 350V Maximum
- Operation LED Current: 3.0mA Maximum
- ► Load Current: C231S: 120mA Maximum / C331S: 100mA Maximum
- On-Resistance: 24Ω Maximum
- Output Capacitance: 115pF Typical
- ▶ Low Off-State Leakage Current: 1.0µA Maximum



C231S/C331S MAXIMUM RATINGS (Ambient Temperature: 25°C)							
Parameters	Symbol	Units	Value				
INPUT SPECIFICATIONS							
Continuous LED Current	lf	mA	50mA				
Peak LED Current	Ifp	mA	500mA				
LED Reverse Voltage	VR	V	5V				
Input Power Dissipation	Pin	mW	75mW				
OUTPUT SPECIFICATIONS							
Load Voltage	VL	V	350V (AC peak or DC)				
Load Current	١L	А	120mA (1Ch) / 100mA (2Ch)				
Peak Load Current	lPeak	А	0.6A				
Output Power Dissipation	Pout	mW	300mW (1Ch) / 450mW (2Ch)				
RELAY SPECIFICATIONS							
Total Power Dissipation	Рт	mW	350mW (1Ch) / 500mW (2Ch)				
I/O Breakdown Voltage	Vi/o	V	1500Vrms				
Operating Temperature	Topr		-40°C ~ +85°C				
Storage Temperature	Tstg		-40°C ~ +100°C				

C231S/C331S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)								
Parameters	Symbol	<b>Test Conditions</b>	Units	Min	Тур	Мах		
INPUT								
LED Forward Voltage	VF	IF=10mA	V	1.0		1.5		
Operation LED Current	IF On		mA		0.9	3.0		
Recovery LED Voltage	<b>V</b> F Off		V	0.5				
OUTPUT								
On-Resistance Drain to Drain	Ron	IF=5mA, I∟=Rating Time to flow is within 1 sec.	Ω		17	24		
Off-State Leakage Current	Leak	VL=350V	μΑ			1.0		
Output Capacitance	Cout	VL=0V, f=1MHz	pF		115			
TRANSMISSION								
Turn-On Time	Ton		ms		0.25	0.5		
Turn-Off Time	Toff	I⊧=5mA, I∟=Rating	ms		0.05	0.2		
COUPLED								
I/O Insulation Resistance	Ri/o		Ω	10 <sup>9</sup>				
I/O Capacitance	Ci/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.