

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!



Contact us

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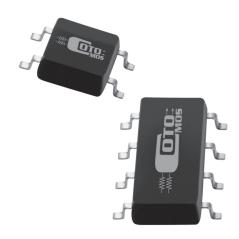
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







C231S/C331S



CotoMOS° C231S/C331S

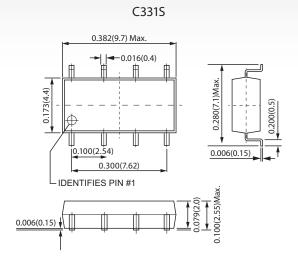
When small size and high performance are needed, the SOP package, such as the C231S or C331S, is the industry choice. Both the C231S and the C331S feature high load voltage capability and the opportunity for efficient board layout, saving precious board space without compromising on performance. In addition, 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.

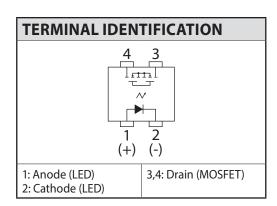
C231S/C331S Features

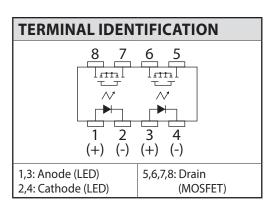
- Contact Form: C231S: 1A / C331S: 2A
- ▶ Load Voltage: 350V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- Load Current: C231S: 120mA Maximum / C331S: 100mA Maximum
- On-Resistance: 24Ω Maximum
- ▶ Output Capacitance: 115pF Typical
- Low Off-State Leakage Current: 1.0μA Maximum

DIMENSIONS in Inches (Millimeters)

0.181(4.6) Max. 0.016(0.4) 0.100(2.54) IDENTIFIES PIN #1







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

C231S/C331S ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)									
Parameters	Symbol	Test Conditions	Units	Min	Тур	Max			
INPUT									
LED Forward Voltage	VF	I _F =10mA	V	1.0		1.5			
Operation LED Current	IF On		mA		0.9	3.0			
Recovery LED Voltage	V 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	In Frank I. Dating	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 ⁹					
I/O Capacitance	Cı/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.



31 SERIES GRAPHS

