

CotoMOS° C230S/C330S

When small size and high performance are needed, the SOP package, such as the C230S or C330S, is the industry choice. Both the C230S and the C330S feature high load voltage capability and the opportunity for efficient board layout, saving precious board space without compromising on performance. In addition, the C330S 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.

C230S/C330S Features

▶ Contact Form: C230S: 1A / C330S: 2A

▶ Load Voltage: 400V Maximum

▶ Operation LED Current: 3.0mA Maximum

▶ Load Current: C230S: 100mA Maximum / C330S: 85mA Maximum

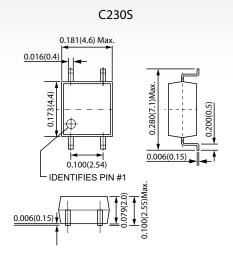
• On-Resistance: 24Ω Typical

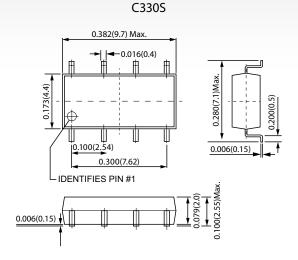
▶ Output Capacitance: 115pF Typical

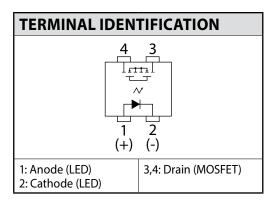
Low Off-State Leakage Current: 1.0μA Maximum

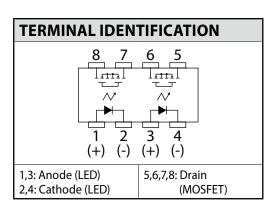
DIMENSIONS

in Inches (Millimeters)









C230S/C330S 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	VR	V	5						
Input Power Dissipation	Pin	mW	75						
OUTPUT SPECIFICATIONS									
Load Voltage	VL	V (AC peak or DC)	400						
Load Current	I L	mA	100 (1Ch) / 85 (2Ch)						
Peak Load Current	l _{Peak}	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	۰C	-40 ~ +100						

C230S/C330S 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	I F On		mA		0.9	3.0			
Recovery LED Voltage	V F Off		V	0.5					
ОИТРИТ									
On-Resistance Drain to Drain	Ron	l=5mA, l∟=Rating Time to flow is within 1 sec.	Ω		24	30			
Off-State Leakage Current	lLeak	VL=400V	μΑ			1.0			
Output Capacitance	Cout	VL=0V, f=1MHz	pF		115				
TRANSMISSION									
Turn-On Time	Ton	Is—Fm A. I.—Pating	ms		0.25	0.5			
Turn-Off Time	Toff	I⊧=5mA, I∟=Rating	ms		0.02	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.