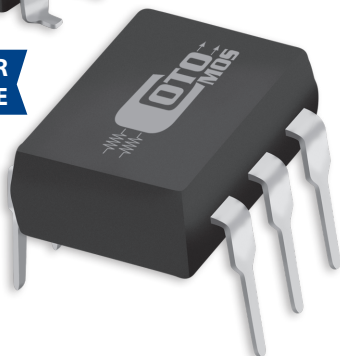


**NEW! LOWER
CAPACITANCE**



CotoMOS® CT130/CS130

The CT130 and CS130 feature current switching capability to 120mA with a low on resistance of 30Ω 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.

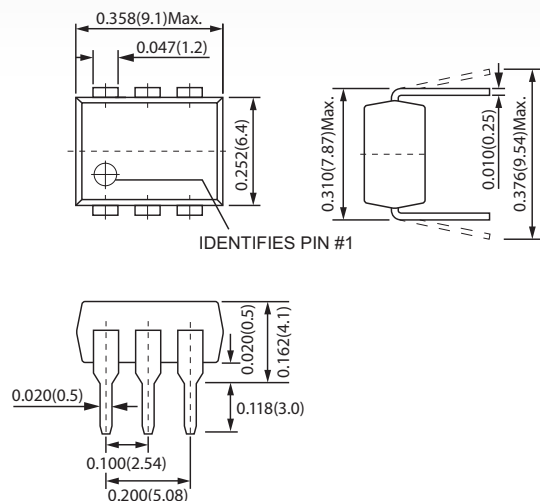
CT130/CS130 Features

- ▶ Contact Form: 1A
- ▶ Load Voltage: 400V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 120mA Maximum
- ▶ On-Resistance: 30Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum

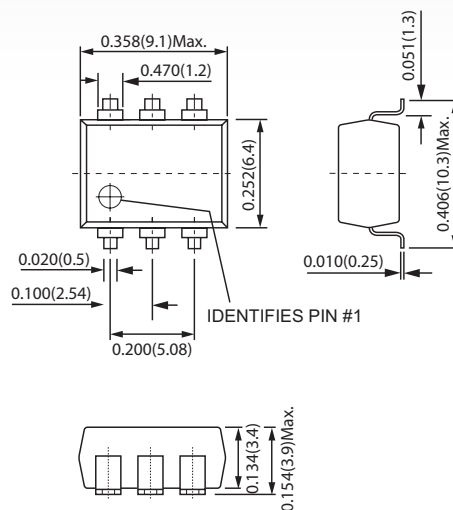
DIMENSIONS

in Inches (Millimeters)

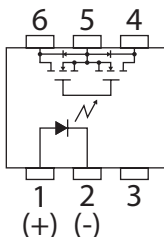
CT130



CS130



TERMINAL IDENTIFICATION



1: Anode (LED)
2: Cathode (LED)
3: NC

4,6: Drain (MOS FET)
5: Source (MOS FET)

CT130/CS130 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50
Peak LED Current	I _{FP}	mA	500
LED Reverse Voltage	V _R	V	5
Input Power Dissipation	P _{in}	mW	75
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V (AC peak or DC)	400
Load Current	I _L	mA	120
Peak Load Current	I _{Peak}	A	0.6
Output Power Dissipation	P _{Out}	mW	450
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500
I/O Breakdown Voltage	V _{I/O}	V _{rms}	1500
Operating Temperature	T _{opr}	°C	-40 ~ +85
Storage Temperature	T _{stg}	°C	-40 ~ +100

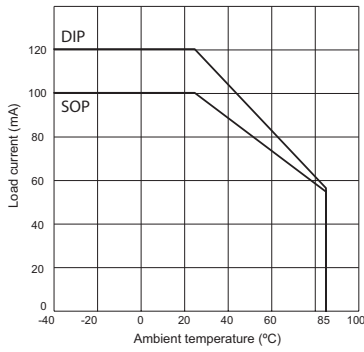
CT130/CS130 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0	1.17	1.5
Operation LED Current	I _{F On}		mA		0.65	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.0	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		21	30
Off-State Leakage Current	I _{Leak}	V _L =400V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		55	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Turn-Off Time	T _{Off}		ms		0.05	1.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.3	

Environmental Ratings:

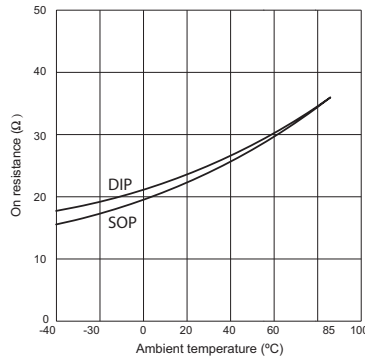
Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.
All electrical parameters measured at 25° C unless otherwise specified.

30 SERIES GRAPHS

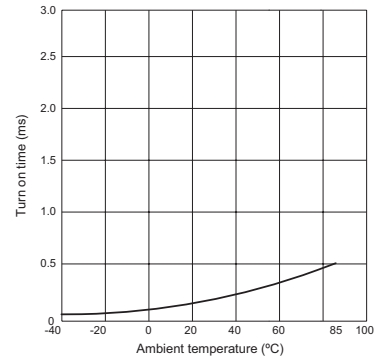
Load current Vs.
Ambient temperature



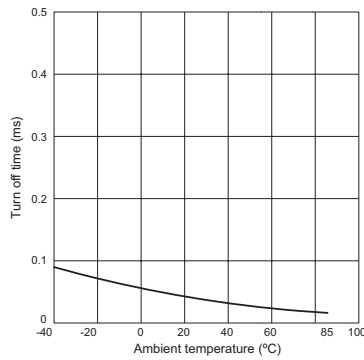
On resistance Vs.
Ambient temperature



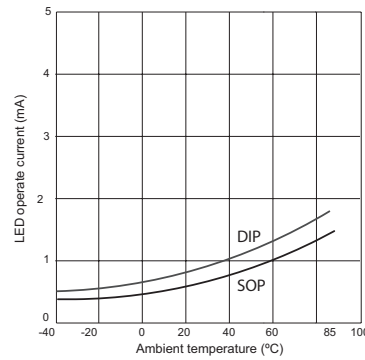
Turn on time Vs.
Ambient temperature



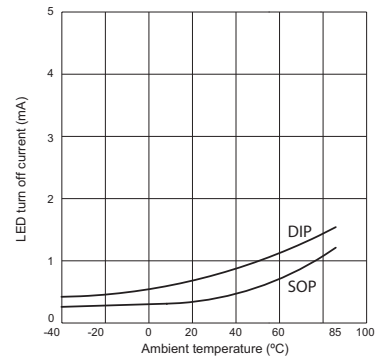
Turn off time Vs.
Ambient temperature



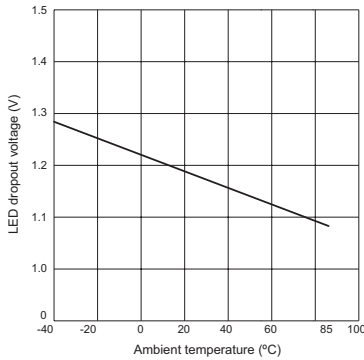
LED operate current Vs.
Ambient temperature



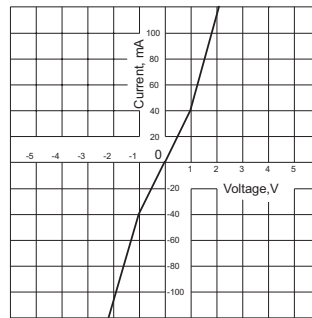
LED Turn off current Vs.
Ambient temperature



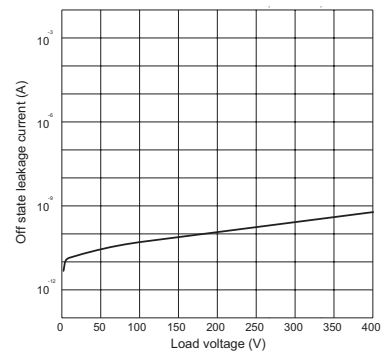
LED forward voltage Vs.
Ambient temperature



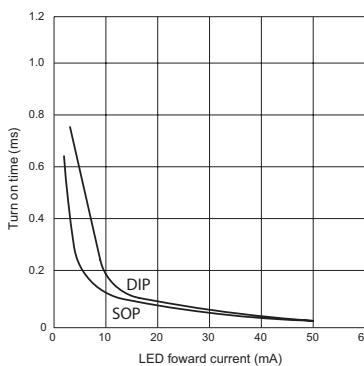
Voltage Vs. current characteristics
of output at MOS portion



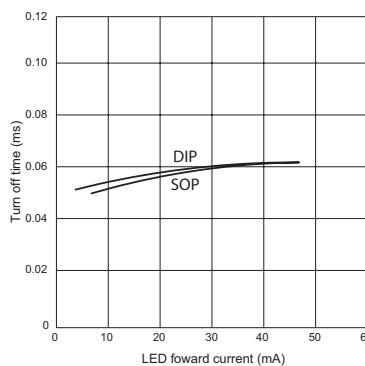
Off state leakage current



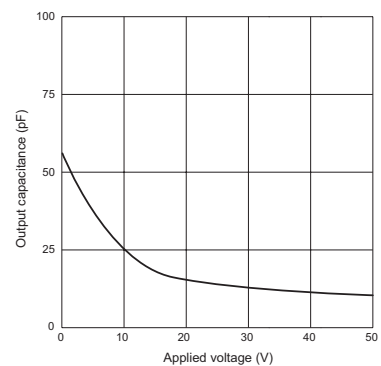
LED foward current Vs.
turn on time characteristics



LED foward current Vs.
turn off time characteristics



Applied voltage Vs.
output capacitance characteristics



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