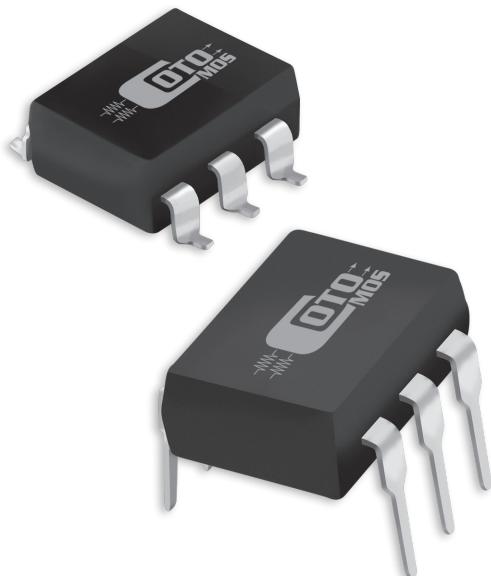




# CT140/CS140



## CotoMOS® CT140/CS140

The CT140 and CS140 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT140 and the CS140 offer high voltage switching and high load current. The CT140 utilizes a thru hole lead configuration, while the CS140 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Solar, and Battery Management.

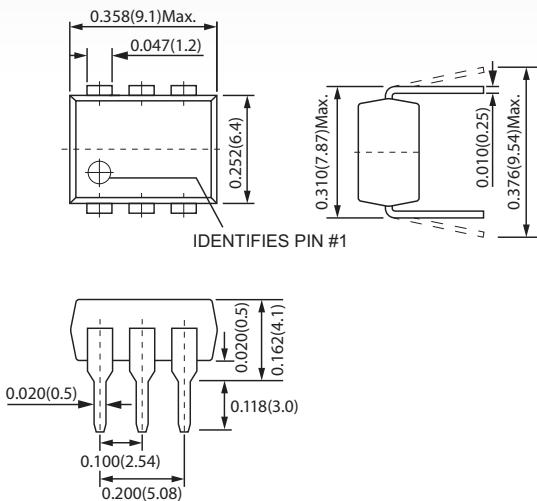
## CT140/CS140 Features

- Contact Form: 1A
- Load Voltage: 1500V Maximum
- Operation LED Current: 5.0mA Maximum
- Load Current: 45mA Maximum
- On-Resistance: 180Ω Typical
- Low Off-State Leakage Current: 10µA Maximum
- I/O Breakdown Voltage: 3750Vrms Minimum
- Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum

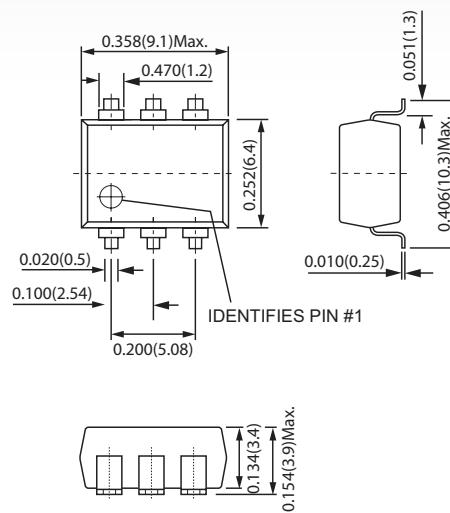
## DIMENSIONS

*in Inches (Millimeters)*

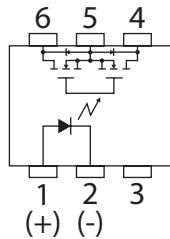
CT140



CS140



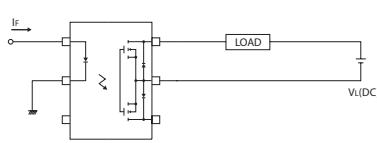
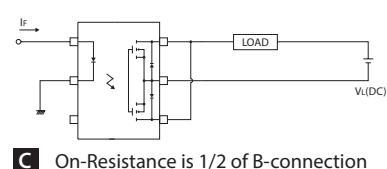
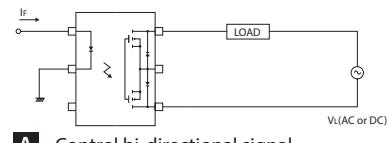
## TERMINAL IDENTIFICATION



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

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

## CONNECTIONS



## CT140/CS140 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value		
<b>INPUT SPECIFICATIONS</b>					
Continuous LED Current	I <sub>F</sub>	mA	50		
Peak LED Current	I <sub>FP</sub>	mA	500		
LED Reverse Voltage	V <sub>R</sub>	V	5		
Input Power Dissipation	P <sub>in</sub>	mW	75		
<b>OUTPUT SPECIFICATIONS</b>					
Load Voltage	V <sub>L</sub>	V (AC peak or DC)	1500		
Load Current (See connections on previous page)	I <sub>L</sub>	mA	A B C	45mA (AC or DC) 50mA (DC) 70mA (DC)	
Peak Load Current	I <sub>Peak</sub>	mA	200		
Output Power Dissipation	P <sub>out</sub>	mW	450		
<b>RELAY SPECIFICATIONS</b>					
Total Power Dissipation	P <sub>T</sub>	mW	500		
I/O Breakdown Voltage	V <sub>I/O</sub>	Vrms	3750		
Operating Temperature	T <sub>Op</sub>	°C	-40 ~ +85		
Storage Temperature	T <sub>Stg</sub>	°C	-40 ~ +100		

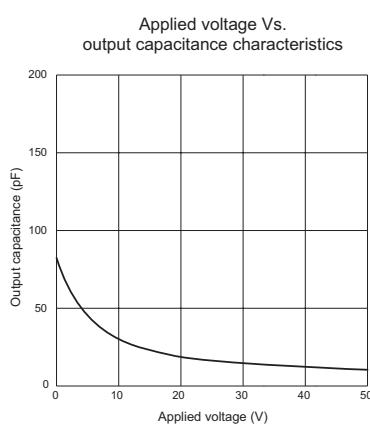
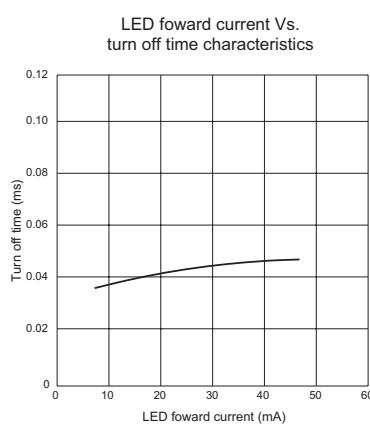
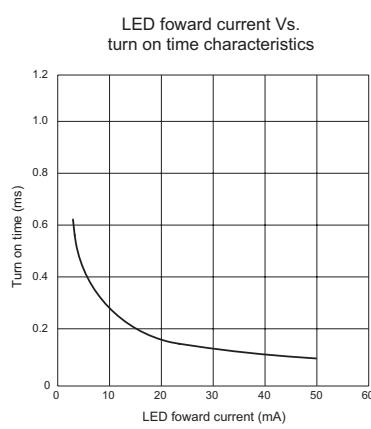
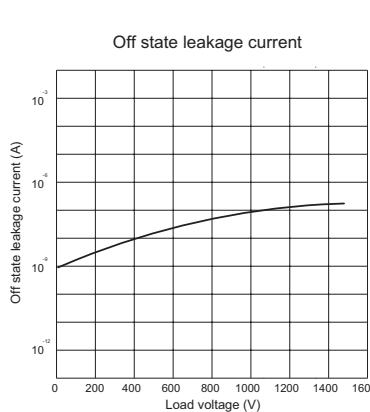
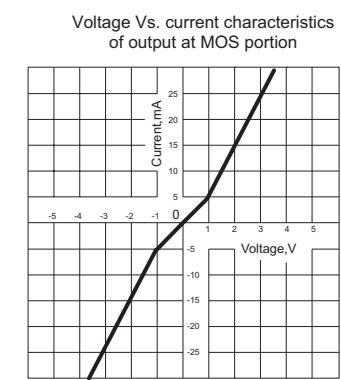
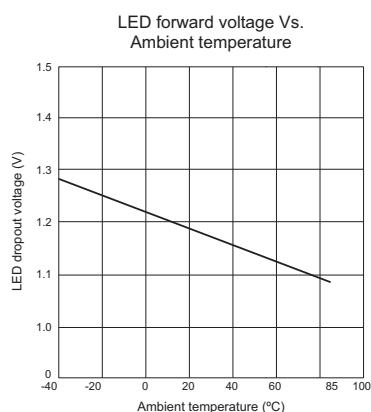
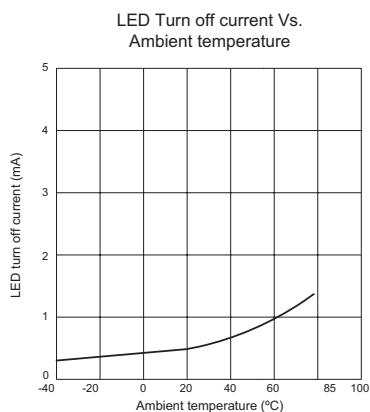
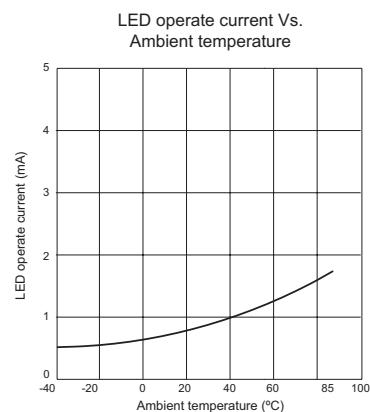
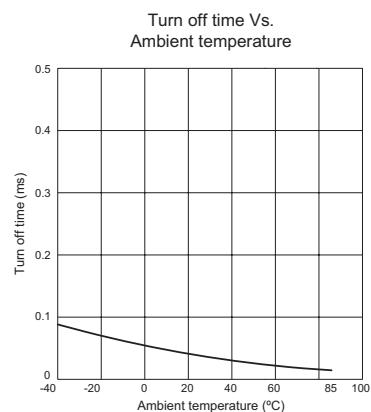
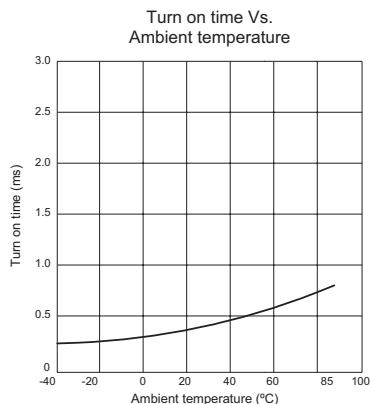
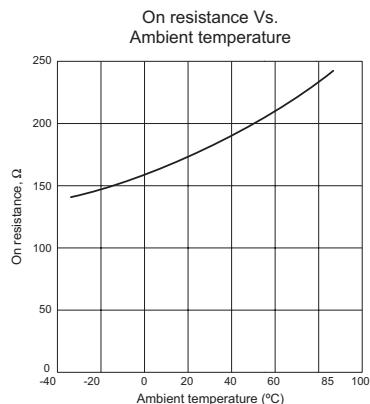
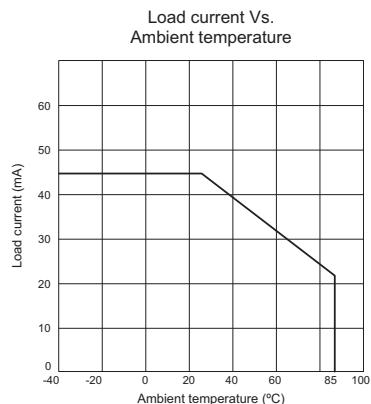
## CT140/CS140 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
<b>INPUT</b>						
LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	V	1.0	1.17	1.5
Operation LED Current	I <sub>F On</sub>		mA		0.9	5.0
Recovery LED Voltage	V <sub>F Off</sub>		V	0.5	1.0	
<b>OUTPUT</b>						
On-Resistance Drain to Drain	R <sub>on</sub>	I <sub>F</sub> =10mA, I <sub>L</sub> =Rating I <sub>F</sub> =10mA, I <sub>L</sub> <5mA	Ω	110 180	200 300	
Off-State Leakage Current	I <sub>Leak</sub>	I <sub>F</sub> =0mA, V <sub>L</sub> =1500V	μA			10
Output Capacitance	C <sub>out</sub>	V <sub>L</sub> =0V, f=1MHz	pF		83	
<b>TRANSMISSION</b>						
Turn-On Time	T <sub>On</sub>		ms	0.3	1.0	
Turn-Off Time	T <sub>Off</sub>	I <sub>F</sub> =10mA, I <sub>L</sub> =Rating	ms	0.04	0.5	
<b>COUPLED</b>						
I/O Insulation Resistance	R <sub>I/O</sub>		Ω	10 <sup>10</sup>		
I/O Capacitance	C <sub>I/O</sub>	f=1MHz	pF		1.3	

### Environmental Ratings:

Operating Temp: -40°C to +85°C; Storage Temp: -40 to +100°C.

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