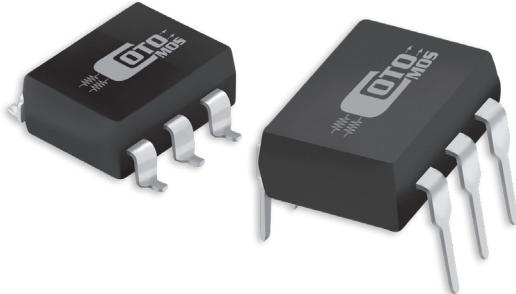


Description

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.

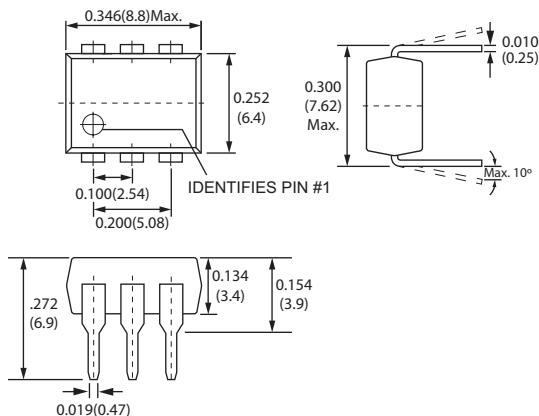
Device Package



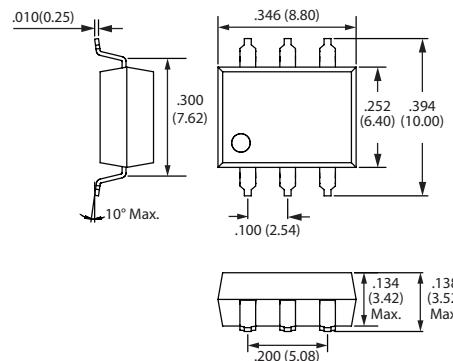
DIMENSIONS

in Inches (Millimeters)

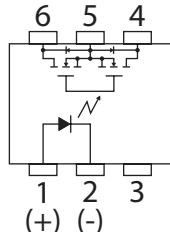
CT140



CS140



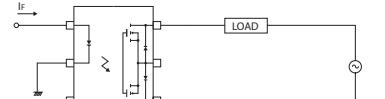
Terminal Identification



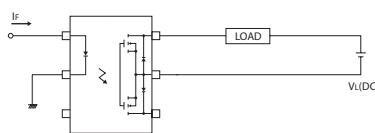
1: Anode (LED)
2: Cathode (LED)
3: NC

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

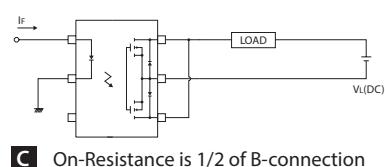
CONNECTIONS



A Control bi-directional signal



B On-Resistance is 1/2 of A-connection



C On-Resistance is 1/2 of B-connection

Features

- Contact Form: 1A
- Load Voltage: 1500V Maximum
- Operation LED Current: 5.0mA Maximum
- Load Current: 45mA A(AC), 50mA B(DC), 75mA C(DC)
- 3750 / 5000 Vrms InputOutput Isolation
- Output Capacitance: 58pF Typical
- Low Off-State Leakage Current: 10 μ A Maximum

Applications

- Telecommunications (PC, Electronic notepad).
- Measuring and testing equipment.
- Industrial control.
- Automatic meter reading device.
- High inspection machine Arc-Free with no snubbing circuits

Specifications

Absolute Maximum Ratings

Parameters	Symbol	Rating		Unit
Input	Continuous LED Current	I _F	50	mA
	Peak LED Current (f=100 Hz, duty=1%)	I _{FP}	1000	mA
	LED Reverse Voltage	V _R	5	V
	Input Power Dissipation	P _{In}	75	mW
Output	Load Voltage	V _L	1500	V (AC peak or DC)
	Load Current	I _L	A 45mA (AC)	mA
			B 50mA (DC)	
			C 75mA (DC)	
	Peak Load Current	I _{peak}	180	mA
	Output Power Dissipation	P _{out}	450	mW
	Total Power Dissipation	P _T	500	mW
	I/O Breakdown Voltage (RH=60%, 1 min)	V _{I/O}	3750	Vrms
	I/O Breakdown Voltage (suffix-V) (RH=60%, 1 min)	V _{I/O}	5000	Vrms
	Operating Temperature	T _{opr}	-40 to +85	°C
	Storage Temperature	T _{stg}	-40 to +100	°C
	Pin Soldering Temperature (10 sec. max)	T _{sol}	260	°C

Electro-Optical Characteristics

Parameters	Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	V _F	I _F =10mA		1.2	1.5	V
	I _{F ON}		0.7	0.8	5.0	mA
	V _{F OFF}			0.35	0.5	V
Output	R _{on}	I _F =10mA, I _L =Rating I _F =10mA, I _L <5mA		130 220	200 300	Ω
	I _{LEAK}	I _F =0mA, V _L =1500V			10	μA
	C _{out}	V _L =0V, f=1MHz		58		pF
Trans-mission	T _{ON}			0.3	1.0	ms
	T _{OFF}	I _F =10mA, I _L =Rating		0.3	0.2	ms
Coupled	R _{I/O}		10 ¹⁰			Ω
	C _{I/O}	f=1MHz		0.8	1.5	pF

Environmental Ratings:

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

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