

CotoMOS® CT248 / CS248 / CT348 / CS348

The CT248 / CS248 / CT348 / CS348 features current switching capability to 350mA with a low on resistance of 3.5Ω Maximum. Designed for Security, Industrial Controls, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 100V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through www.cotorelay.com.

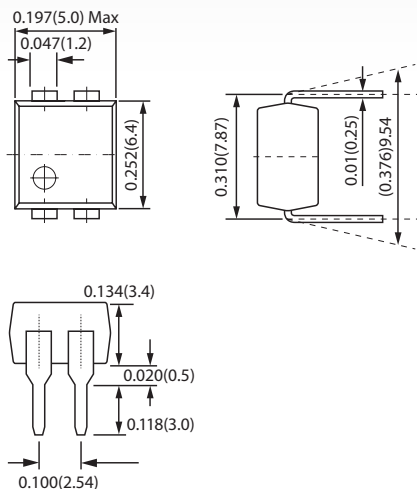
CT248/CS248 / CT348 / CS348 Features

- ▶ Contact Form: 1A/2A
- ▶ Load Voltage: 100V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 350mA Maximum
- ▶ On-Resistance: 3.5Ω Maximum
- ▶ Output Capacitance: 37pF Typical
- ▶ Low Off-State Leakage Current: 1.0μ A Maximum
- ▶ Suffix - H for DIP/SMD I/O Breakdown Voltage: 5000Vrms Minimum

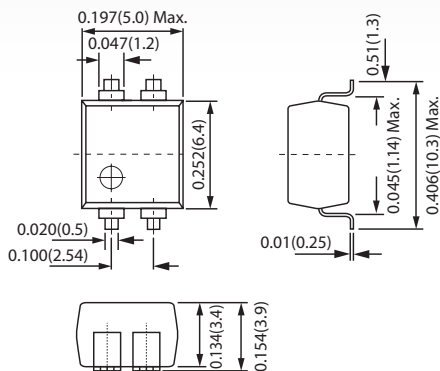
DIMENSIONS

in Inches (Millimeters)

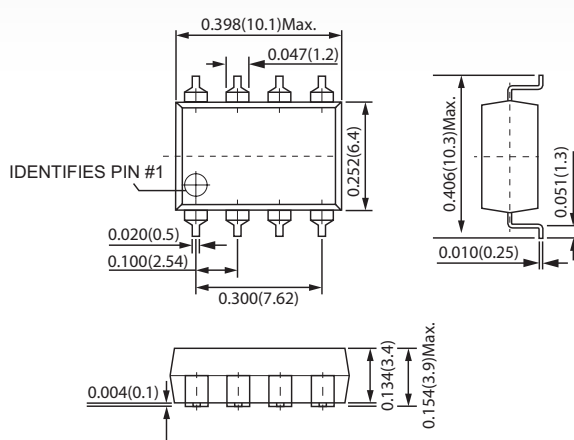
CT248



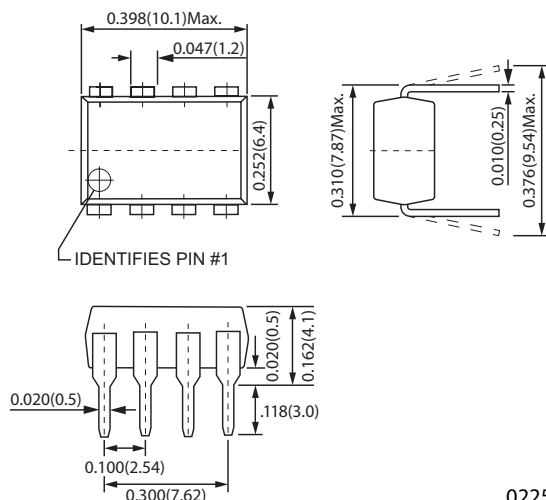
CS248



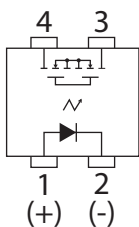
CS348



CT348

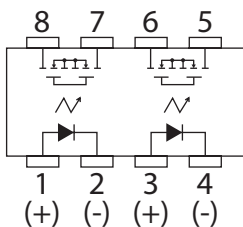


TERMINAL IDENTIFICATION



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

TERMINAL IDENTIFICATION



1,3: Anode (LED)
2,4: Cathode (LED)
5,6,7,8: Drain (MOSFET)

CT248 / CS248 / CT348 / CS348 MAXIMUM RATINGS (Ambient Temperature: 25°C)

Parameters	Symbol	Units	Value (DIP or SMD 4/8)
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)	100
Load Current	I _L	mA	350 / 310
Peak Load Current	I _{Peak}	A	1400 / 1400
Output Power Dissipation	P _{Out}	mW	200 / 400
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	225 / 450
I/O Breakdown Voltage	V _{I/O}	V _{rms}	1500
Operating Temperature	T _{Op}	°C	-40 ~ +85
Storage Temperature	T _{Stg}	°C	-40 ~ +100

CT248 / CS248 / CT348 / CS348 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

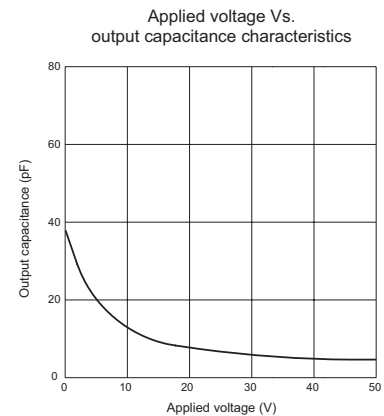
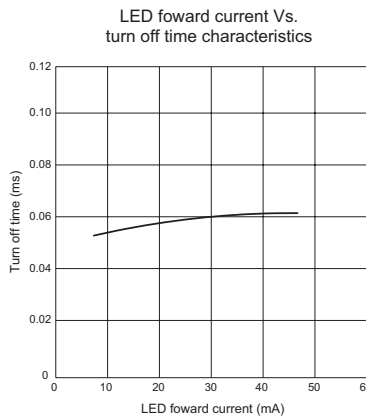
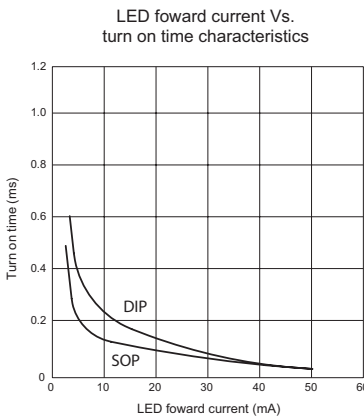
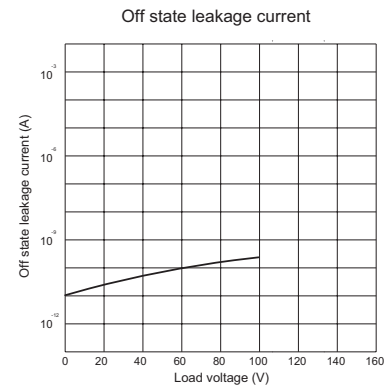
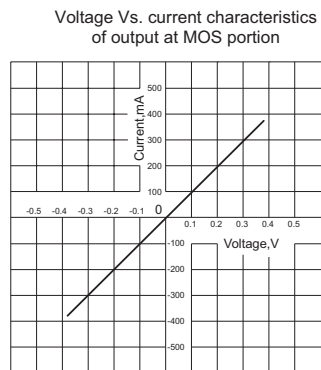
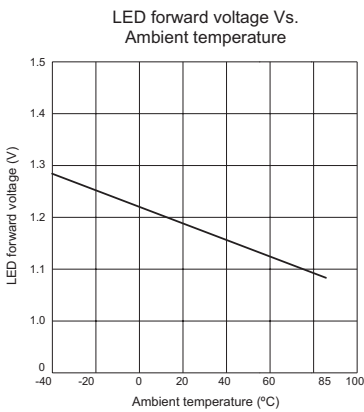
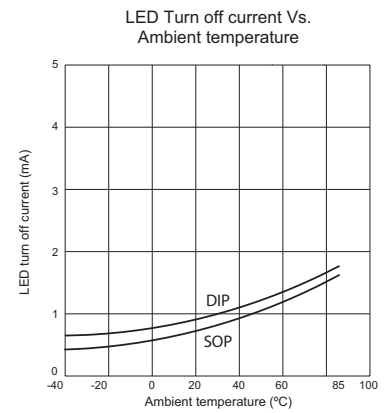
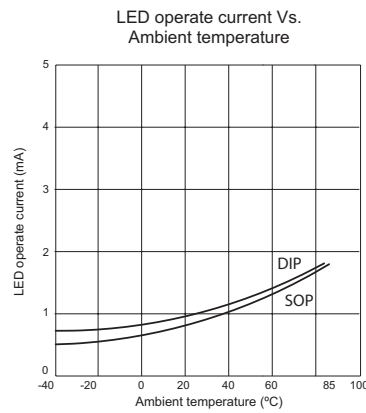
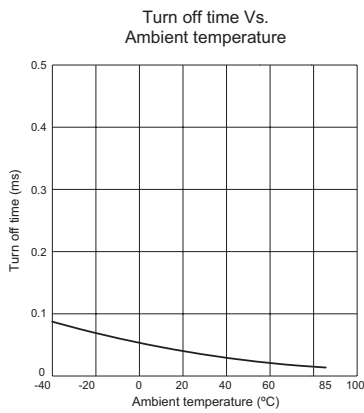
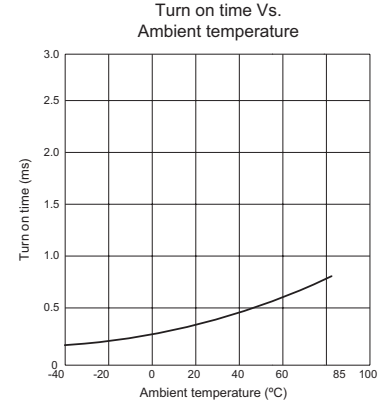
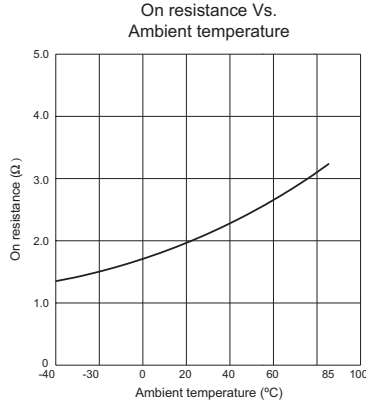
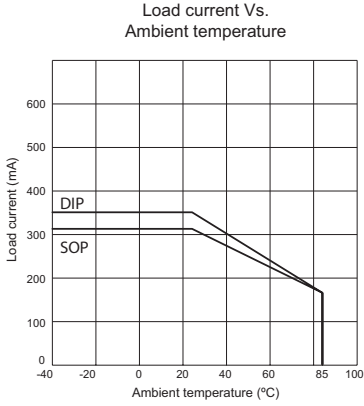
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0	1.17	1.5
Operation LED Current	I _{F On}		mA		0.9	3.0
Recovery LED Voltage	V _{F Off}		V	0.5	1.0	
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω		2.0	3.5
Off-State Leakage Current	I _{Leak}	V _L =100V	μA			1.0
Output Capacitance	C _{Out}	V _L =100V, f=1MHz	pF		37	
TRANSMISSION						
Operate Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.2	1.0
Recovery Time	T _{Off}	I _F =10mA, I _L =Rating	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.

48 SERIES GRAPHS



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