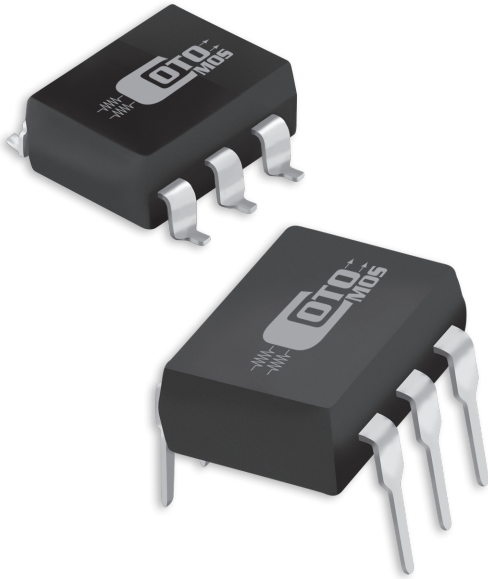


**CotoMOS® CT124/CS124**

The CT124 and CS124 feature high current switching capability to 3.5A with a low on resistance of 0.07Ω Maximum. Designed for ATE, Controls, or Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 40V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through [www.cotorelay.com](http://www.cotorelay.com) or email us at [cotomos@cotorelay.com](mailto:cotomos@cotorelay.com).

**CT124/CS124 Features**

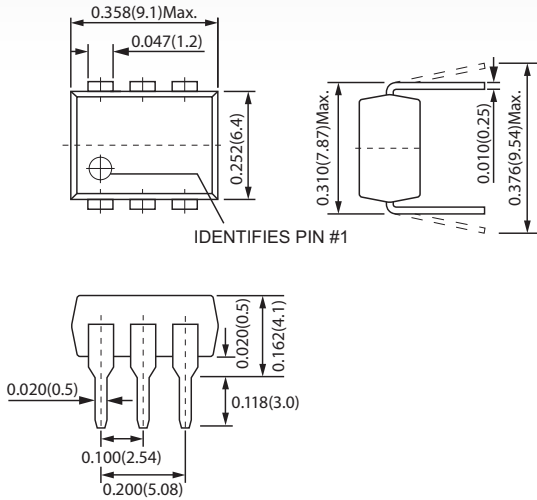
- ▶ Contact Form: 1A
- ▶ Load Voltage: 40V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 3.5A Maximum
- ▶ On-Resistance: 0.07Ω Maximum
- ▶ Low Off-State Leakage Current: 10µA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



**DIMENSIONS**

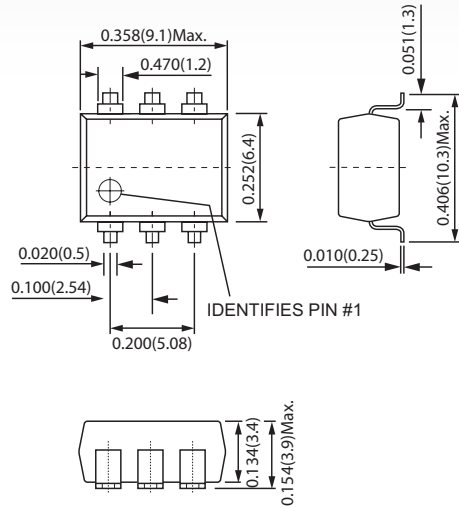
*in Inches (Millimeters)*

CT124



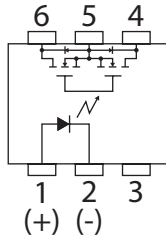
IDENTIFIES PIN #1

CS124



IDENTIFIES PIN #1

**TERMINAL IDENTIFICATION**



- |                  |                      |
|------------------|----------------------|
| 1: Anode (LED)   | 4,6: Drain (MOS FET) |
| 2: Cathode (LED) | 5: Source (MOS FET)  |
| 3: NC            |                      |

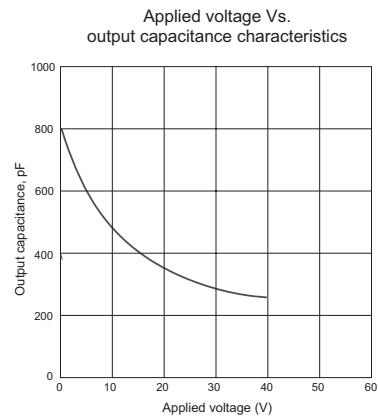
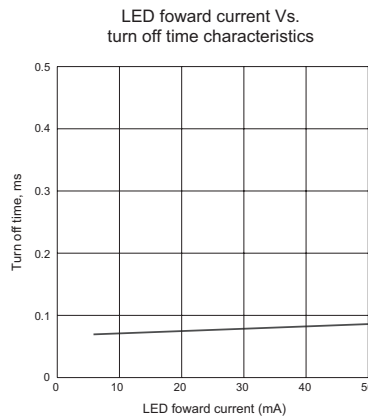
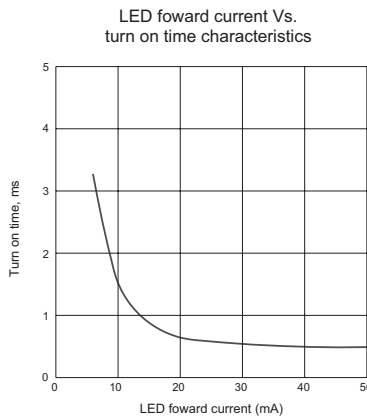
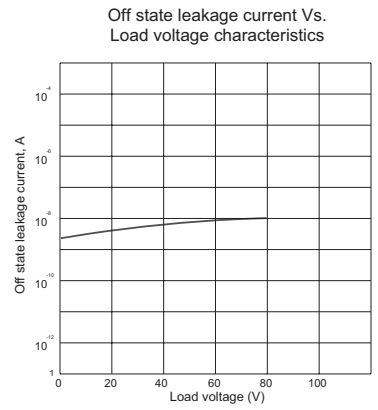
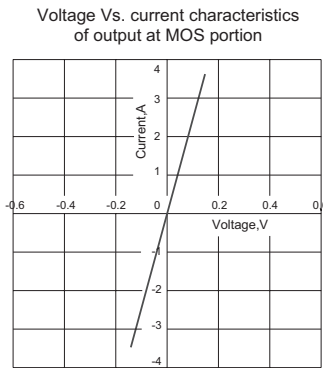
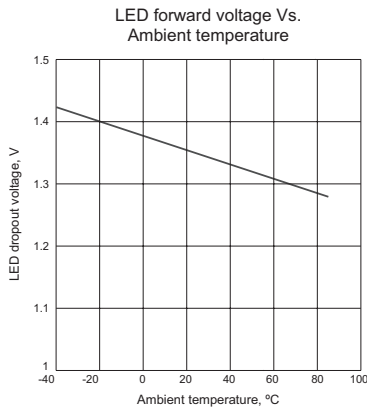
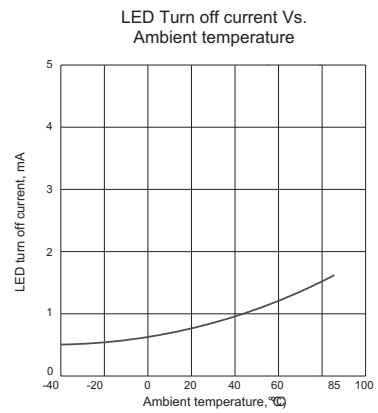
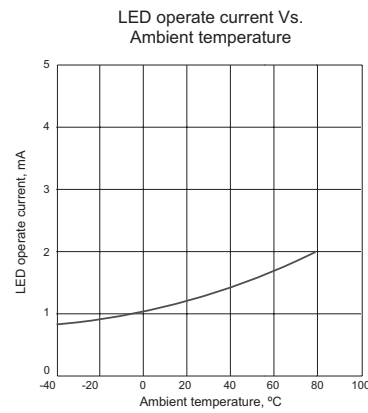
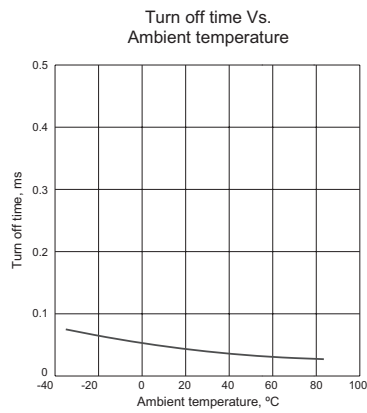
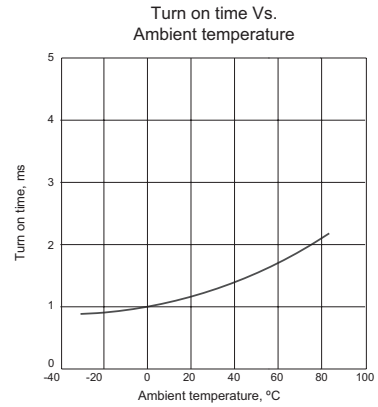
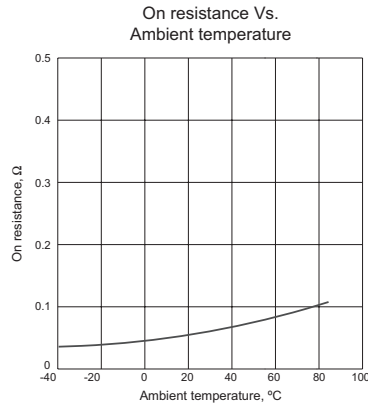
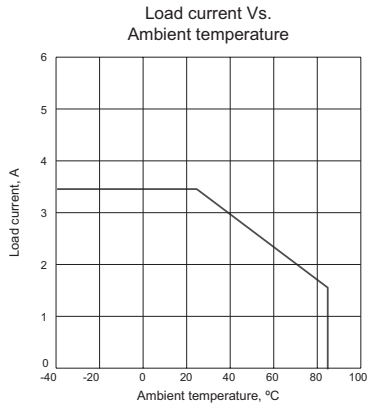
| CT124/CS124 MAXIMUM RATINGS (Ambient Temperature: 25°C) |                   |                   |            |
|---|-------------------|-------------------|------------|
| Parameters  | Symbol            | Units             | Value      |
| <b>INPUT SPECIFICATIONS</b>                             |                   |                   |            |
| 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) | 40         |
| Load Current  | I <sub>L</sub>    | A                 | 3.5        |
| Peak Load Current                                       | I <sub>Peak</sub> | A                 | 8.0        |
| Output Power Dissipation                                | P <sub>Out</sub>  | mW                | 500        |
| <b>RELAY SPECIFICATIONS</b>                             |                   |                   |            |
| Total Power Dissipation                                 | P <sub>T</sub>    | mW                | 550        |
| I/O Breakdown Voltage                                   | V <sub>I/O</sub>  | V <sub>rms</sub>  | 1500       |
| Operating Temperature                                   | T <sub>Opr</sub>  | °C                | -40 ~ +85  |
| Storage Temperature                                     | T <sub>Stg</sub>  | °C                | -40 ~ +100 |

| CT124/CS124 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               | 1.37  | 1.5  |
| Operation LED Current   | I <sub>F On</sub>  |   | mA    |                   | 1.5   | 3.0  |
| Recovery LED Voltage  | V <sub>F Off</sub> |   | V     | 0.5               | 1.2   |      |
| <b>OUTPUT</b>   |                    |   |       |                   |       |      |
| On-Resistance Drain to Drain                                      | R <sub>On</sub>    | I <sub>F</sub> =10mA, I <sub>L</sub> =Rating<br>Time to flow is within 1 sec. | Ω     |                   | 0.045 | 0.07 |
| Off-State Leakage Current   | I <sub>Leak</sub>  | I <sub>F</sub> =0mA, V <sub>L</sub> =40V                                      | μA    |                   |       | 1.0  |
| Output Capacitance  | C <sub>Out</sub>   | V <sub>L</sub> =0V, f=1MHz  | pF    |                   | 810   |      |
| <b>TRANSMISSION</b>   |                    |   |       |                   |       |      |
| Turn-On Time  | T <sub>On</sub>    | I <sub>F</sub> =10mA, I <sub>L</sub> =Rating                                  | ms    |                   | 1.8   | 5.0  |
| Turn-Off Time   | T <sub>Off</sub>   |   | ms    |                   | 0.03  | 2.0  |
| <b>COUPLED</b>  |                    |   |       |                   |       |      |
| I/O Insulation Resistance   | R <sub>I/O</sub>   |   | Ω     | 5*10 <sup>9</sup> |       |      |
| I/O Capacitance   | C <sub>I/O</sub>   | f=1MHz  | pF    |                   | 1.0   |      |

**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.

## CT124/CS124 GRAPHS



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Solid State Relays - PCB Mount](#) category:*

*Click to view products by [Coto](#) manufacturer:*

Other Similar products are found below :

[M86F-2W](#) [M90F-2Y](#) [G2-1A07-ST](#) [G2-1A07-TT](#) [G2-1B02-TT](#) [G2-DA06-ST](#) [923812OCAS](#) [PLA134S](#) [DS11-1005](#) [AQV210EHJ](#) [AQV212J](#)  
[AQV252GAJ](#) [AQY210ST](#) [AQY221N2SJ](#) [AQY221R2SJ](#) [AQY410SXJ](#) [AQY412EHAJ](#) [EFR1200480A150](#) [901-7](#) [LCA220](#) [LCB110S](#)  
[1618400-5](#) [SR75-1ST](#) [AQH2213AJ](#) [AQV112KLJ](#) [AQV212AJ](#) [AQV212SXJ](#) [AQV238AD01](#) [AQW414TS](#) [AQY221N2SYD01](#)  
[AQY221N2V1YJ](#) [AQY221R2VJ](#) [AQY275AXJ](#) [AQY414SXE01](#) [G2-1A02-ST](#) [G2-1A03-ST](#) [G2-1A03-TT](#) [G2-1A05-ST](#) [G2-1A06-TT](#) [G2-](#)  
[1A23-TT](#) [G2-1B01-ST](#) [G2-1B01-TT](#) [G2-1B02-ST](#) [G2-DA03-ST](#) [G2-DA03-TT](#) [G2-DA06-TT](#) [CPC1333GR](#) [3-1617776-2](#) [CTA2425](#)  
[TLP3131\(F\)](#)