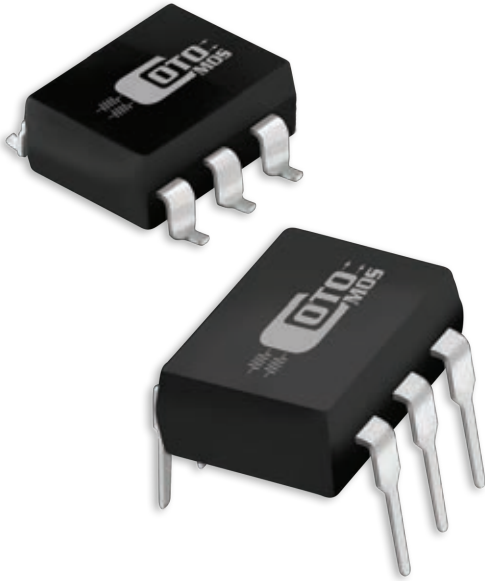


## CotoMOS CT134/CS134

The CT134 and CS134 feature current switching capability to 200mA with a low on resistance of 8Ω Maximum. Designed for Security, Measurement and Instrumentation applications the CotoMOS® relay is capable of handling 200V load conditions. If your requirements are different please contact your Coto Applications Engineer for assistance through [www.cotorelay.com](http://www.cotorelay.com).

### CT134/CS134 Features

- ▶ Contact Form: 1a
- ▶ Load Voltage: 200V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 200mA Maximum
- ▶ On-Resistance: 8Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



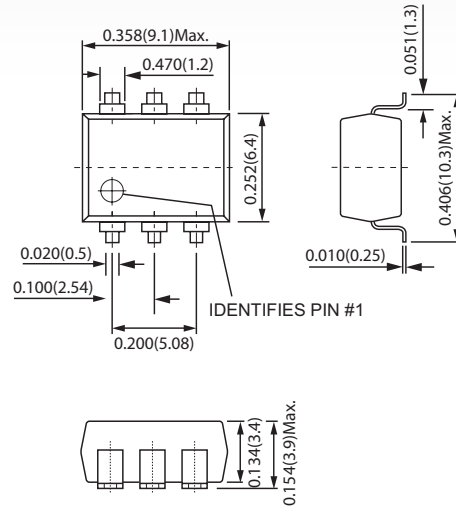
## DIMENSIONS

*in Inches (Millimeters)*

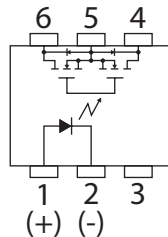
CT134



CS134



### TERMINAL IDENTIFICATION



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

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

| CT134/CS134 MAXIMUM RATINGS (Ambient Temperature: 25°C) |                   |       |                      |
|---|-------------------|-------|----------------------|
| Parameters  | Symbol            | Units | Value                |
| <b>INPUT SPECIFICATIONS</b>                             |                   |       |                      |
| Continuous LED Current                                  | I <sub>F</sub>    | mA    | 50mA                 |
| Peak LED Current  | I <sub>FP</sub>   | mA    | 500mA                |
| LED Reverse Voltage                                     | V <sub>R</sub>    | V     | 5V                   |
| Input Power Dissipation                                 | P <sub>in</sub>   | mW    | 75mW                 |
| <b>OUTPUT SPECIFICATIONS</b>                            |                   |       |                      |
| Load Voltage  | V <sub>L</sub>    | V     | 200V (AC peak or DC) |
| Load Current  | I <sub>L</sub>    | A     | 200mA                |
| Peak Load Current                                       | I <sub>Peak</sub> | A     | 0.8A                 |
| Output Power Dissipation                                | P <sub>Out</sub>  | mW    | 450mW                |
| <b>RELAY SPECIFICATIONS</b>                             |                   |       |                      |
| Total Power Dissipation                                 | P <sub>T</sub>    | mW    | 500mW                |
| I/O Breakdown Voltage                                   | V <sub>I/O</sub>  | V     | 1500Vrms             |
| Operating Temperature                                   | T <sub>Opr</sub>  |       | -40°C ~ +85°C        |
| Storage Temperature                                     | T <sub>Stg</sub>  |       | -40°C ~ +100°C       |

| CT134/CS134 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             |      | 1.5 |
| Operation LED Current   | I <sub>F On</sub>  |  | mA    |                 | 0.9  | 3.0 |
| Recovery LED Voltage  | V <sub>F Off</sub> |  | V     | 0.5             |      |     |
| <b>OUTPUT</b>   |                    |  |       |                 |      |     |
| On-Resistance Drain to Drain                                      | R <sub>On</sub>    | I <sub>F</sub> =5mA, I <sub>L</sub> =Rating<br>Time to flow is within 1 sec. | Ω     |                 | 6.0  | 8.0 |
| Off-State Leakage Current   | I <sub>Leak</sub>  | V <sub>L</sub> =200V   | μA    |                 |      | 1.0 |
| Output Capacitance  | C <sub>Out</sub>   | V <sub>L</sub> =0V, f=1MHz   | pF    |                 | 130  |     |
| <b>TRANSMISSION</b>   |                    |  |       |                 |      |     |
| Turn-On Time  | T <sub>On</sub>    | I <sub>F</sub> =10mA, I <sub>L</sub> =Rating                                 | ms    |                 | 0.2  | 1.0 |
| Turn-Off Time   | T <sub>Off</sub>   |  | ms    |                 | 0.05 | 1.0 |
| <b>COUPLED</b>  |                    |  |       |                 |      |     |
| I/O Insulation Resistance   | R <sub>I/O</sub>   |  | Ω     | 10 <sup>9</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.  
All electrical parameters measured at 25° C unless otherwise specified.