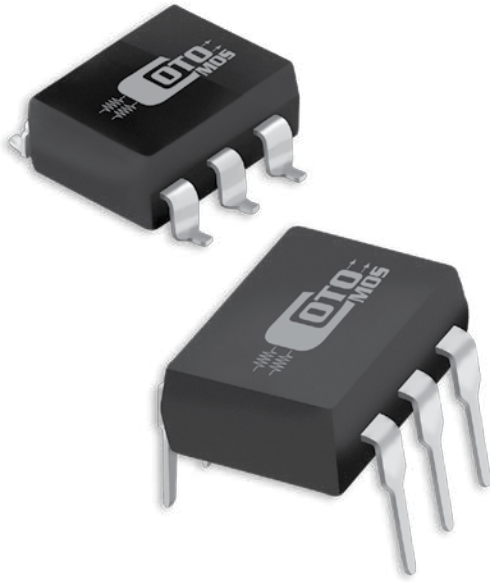


**CotoMOS® CT147/CS147**

The CT147 and CS147 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT147 and the CS147 offer low on resistance and high load current. The CT147 utilizes a thru hole lead configuration, while the CS147 offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications

**CT147/CS147 Features**

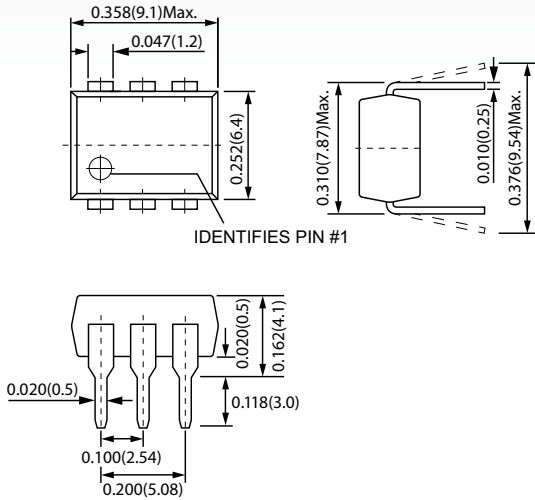
- ▶ Contact Form: 1A
- ▶ Load Voltage: 80V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.0A Maximum
- ▶ On-Resistance: 0.16Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0µA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



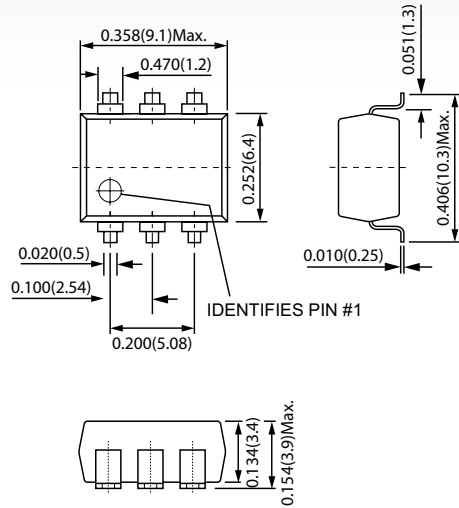
**DIMENSIONS**

*in Inches (Millimeters)*

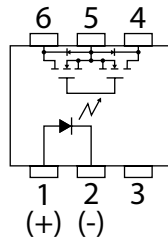
CT147



CS147



**TERMINAL IDENTIFICATION**



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

| <b>CT147/CS147 MAXIMUM RATINGS (Ambient Temperature: 25°C)</b> |                   |                   |            |
|--|-------------------|-------------------|------------|
| 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) | 80         |
| Load Current   | I <sub>L</sub>    | A                 | 2.0        |
| Peak Load Current  | I <sub>Peak</sub> | A                 | 5.0        |
| 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 |

| <b>CT147/CS147 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)</b> |                    |  |       |                 |      |      |
|--|--------------------|--|-------|-----------------|------|------|
| 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    |                 | 1.2  | 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     |                 | 0.1  | 0.16 |
| Off-State Leakage Current  | I <sub>Leak</sub>  | V <sub>L</sub> =80V  | μA    |                 |      | 1.0  |
| Output Capacitance   | C <sub>Out</sub>   | V <sub>L</sub> =0V, f=1MHz   | pF    |                 | 500  |      |
| <b>TRANSMISSION</b>  |                    |  |       |                 |      |      |
| Turn-On Time   | T <sub>On</sub>    | I <sub>F</sub> =10mA, I <sub>L</sub> =Rating                                 | ms    |                 | 0.7  | 5.0  |
| Turn-Off Time  | T <sub>Off</sub>   |  | ms    |                 | 0.04 | 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.

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