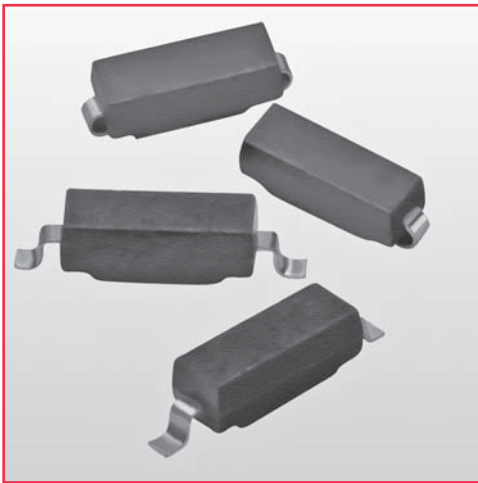


CT05 Series Molded Switch



CT05 Series

The CT05 is a molded dry reed switch. It is single-pole, single throw (SPST) type, having normally open ruthenium contacts.

The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both.

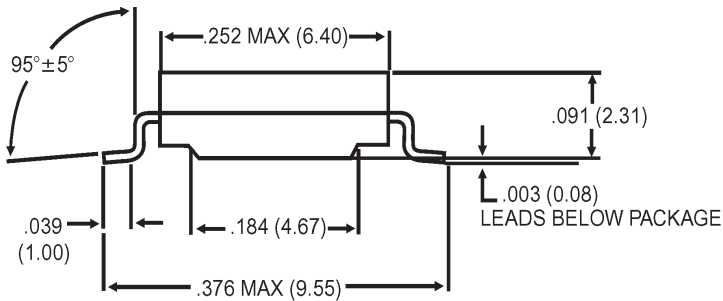
The device is designed for SMD mounting and is available in Gull Wing or J-lead configurations.

CT05 Series Features

- ◆ Ideal for SMD pick and place
- ◆ Tape and reel packaging
- ◆ 5W rating
- ◆ Rugged encapsulation
- ◆ Excellent life and reliability

Applications:

- ◆ Proximity Sensor
- ◆ Medical Applications
- ◆ Hearing Aids
- ◆ Pulse Counter

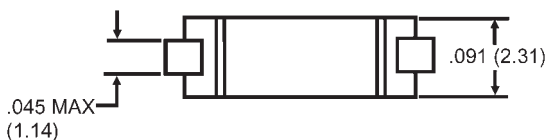
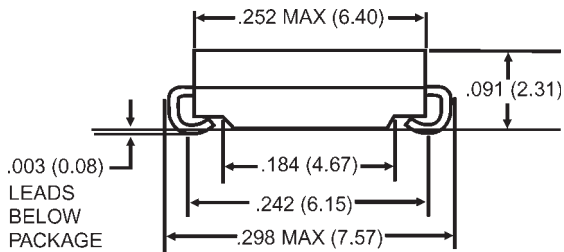


Test Coil
The Magnetic sensitivity of the CT05 sensors is defined in a special test coil. Consult factory for details.



CT05-XXXX-G1

Dimensions in Inches (Millimeters)



CT05-XXXX-J1

ORDERING INFORMATION

A complete part number is represented by the digits to the right of the CT05 series prefix followed by a suffix as shown below.

Example: CT05-3050-G1 is

- a CT05 sensor (5mm encapsulated switch)
- with a sensitivity range from 30 to 50AT
- lead ends are formed according to the G1 version
- * CT05XXXX (0001-1999) without a suffix is a customer special.

CT05-XXXX-YY

Lead Configuration Subset:

- G1** for Gull Wing version
- J1** for J-Lead version

Std. AT Ranges (after mold & lead form)
15-35; 30-50

Series

CT05 Series Molded Switch

| Model Number | | CT05-XXXX-G1 | CT05-XXXX-J1 |
|--------------------------------------|--------------|-----------------|-----------------|
| Parameters | Units | | |
| OPERATING CHARACTERISTICS | | | |
| Operate Range | AT | 15-50 | 15-50 |
| Release Range | AT | 5-45 | 5-45 |
| ELECTRICAL CHARACTERISTICS | | | |
| Switched Power (max) | W | 5 | 5 |
| Switched Voltage DC (max) | V | 140 | 140 |
| Switched Voltage AC, RMS value (max) | V | 100 | 100 |
| Switched Current DC (max) | mA | 350 | 350 |
| Switched Current AC, RMS value (max) | mA | 250 | 250 |
| Carry Current DC (max) | A | 0.5 | 0.5 |
| Breakdown Voltage (min) | V | 230 | 230 |
| Contact Resistance (initial max) | m Ω | 160 | 160 |
| Contact Resistance (initial typ.) | m Ω | 140 | 140 |
| Insulation Resistance (min) | M Ω | 10 ⁶ | 10 ⁶ |
| ENVIRONMENTAL RATINGS | | | |
| Storage Temperature | °C | -40 to +125 | -40 to +125 |
| Operating Temperature | °C | -40 to +125 | -40 to +125 |
| Soldering Temperature ¹ | °C | 260 | 260 |
| Vibration | G | 10 | 10 |
| Shock | G | 100 | 100 |

* Specifications are based on standard switch. Contact factory for other possibilities.

Notes:

¹Surface mount component processing temperature:
500°F(260°C) max for 1 minute dwell time.
Temperature measured on leads where lead exits
molded package.