DALLAS
SEMICONDUCTOR

DS1973
4K–Bit EEPROM iButton™

SPECIAL FEATURES

- 4096 bits Electrically Erasable Programmable Read Only Memory (EEPROM)

- Overdrive mode boosts communication speed to 142k bits per second

- 256–bit scratchpad ensures integrity of data transfer

- Memory partitioned into 256–bit pages for packetizing data

- Reduces control, address, data and power to a single data pin

- 8–bit family code specifies DS1973 communication requirements to reader

- Reads and writes over a wide voltage range of 2.8V to 6.0V from −40°C to +85°C
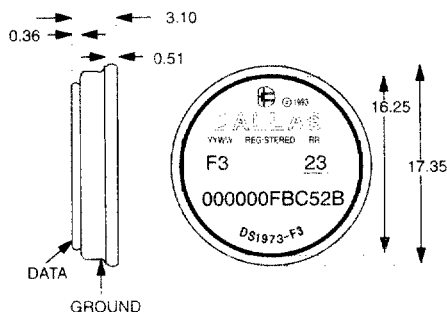
COMMON iButton FEATURES

- Unique, factory lasered and tested 64bit registration number (8bit family code + 48bit serial number + 8bit CRC tester) assures absolute identity because no two parts are alike

- Multidrop controller for MicroLAN™

- Digital identification and information by momentary contact

- Chip–based data carrier compactly stores information

- Data can be accessed while affixed to object

- Economically communicates to bus master with a single digital signal at 16.3k bits per second

- Standard 16 mm diameter and 1–Wire™ protocol ensure compatibility with iButton family

- Button shape is self–aligning with cup–shaped probes

- Durable stainless steel case engraved with registration number withstands harsh environments

- Easily affixed with self–stick adhesive backing, latched by its flange, or locked with a ring pressed onto its rim

- Presence detector acknowledges when reader first applies voltage

- Meets UL#913 (4th Edit.); Intrinsically Safe Apparatus, Approved under Entity Concept for use in Class I, Division 1, Group A, B, C and D Locations (application pending)

ORDERING INFORMATION
DS1973–F3   F3 MicroCan
DS1973–F5   F5 MicroCan

F3 MICROCAN™

F5 MICROCAN™

All dimensions shown in millimeters.