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## SMD Schottky Barrier Diode

**Comchip**  
SMD Diode Specialist

# CDBU70

**Io = 70 mA**

**VR = 70 Volts**

**RoHS Device**

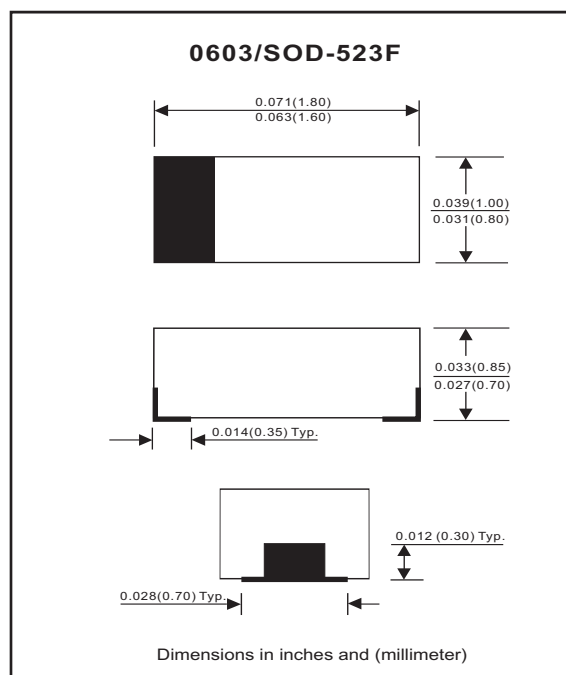


## Features

- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin / leadless package.
- Majority carrier conduction.

## Mechanical data

- Case: 0603/SOD-523F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Weight: 0.003 gram(approx.).



## Maximum Rating (at TA=25°C unless otherwise noted)

| Parameter                         | Conditions                                                           | Symbol  | Min | Typ | Max  | Unit |
|-----------------------------------|----------------------------------------------------------------------|---------|-----|-----|------|------|
| Peak reverse voltage              |                                                                      | VRM     |     |     | 70   | V    |
| Reverse voltage                   |                                                                      | VR      |     |     | 70   | V    |
| RMS reverse voltage               |                                                                      | VR(RMS) |     |     | 49   | V    |
| Average forward rectified current |                                                                      | Io      |     |     | 70   | mA   |
| Forward current,surge peak        | 8.3 ms single half sine-wave superimposed on rate load(JEDEC method) | IFSM    |     |     | 0.1  | A    |
| Power dissipation                 |                                                                      | PD      |     |     | 150  | mW   |
| Storage temperature               |                                                                      | TSTG    | -65 |     | +125 | °C   |
| Junction temperature              |                                                                      | Tj      |     |     | +125 | °C   |

## Electrical Characteristics (at TA=25°C unless otherwise noted)

| Parameter                     | Conditions                           | Symbol | Min | Typ | Max       | Unit |
|-------------------------------|--------------------------------------|--------|-----|-----|-----------|------|
| Forward voltage               | IF = 1mA<br>IF = 15mA                | VF     |     |     | 0.41<br>1 | V    |
| Reverse current               | VR = 50V                             | IR     |     |     | 0.1       | uA   |
| Capacitance between terminals | f = 1 MHz, and 0 VDC reverse voltage | CT     |     |     | 2         | pF   |
| Reverse recovery time         | IF=IR=10mA,Irr=0.1xIR,RL=100 Ohm     | Trr    |     |     | 5         | nS   |

## SMD Schottky Barrier Diode

### RATING AND CHARACTERISTIC CURVES (CDBU70)

Fig. 1 - Forward characteristics

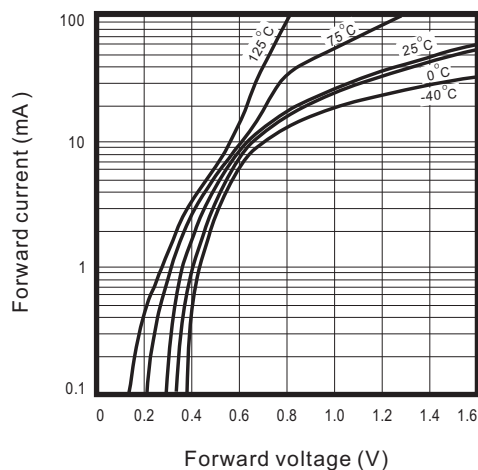


Fig. 2 - Reverse characteristics

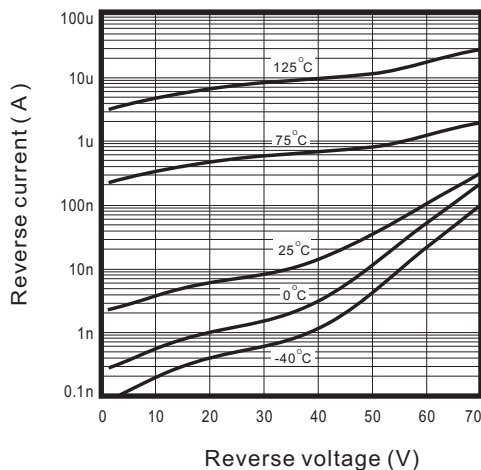


Fig.3 - Capacitance between terminals characteristics

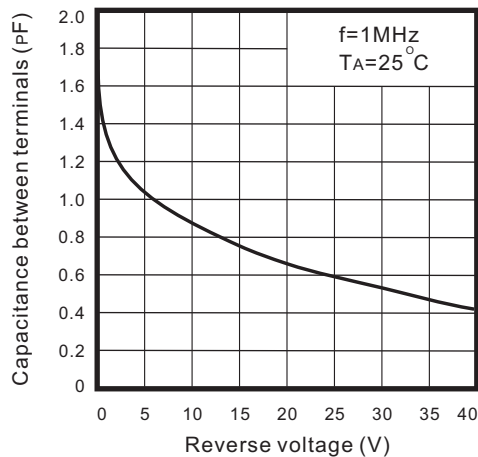


Fig.4 - Current derating curve

