

# SMD Schottky Barrier Diode

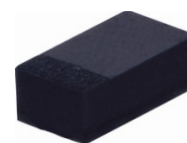


SMD Diodes Specialist

## CDBFR0230L (RoHs Device)

$I_o = 200 \text{ mA}$

$V_R = 30 \text{ Volts}$

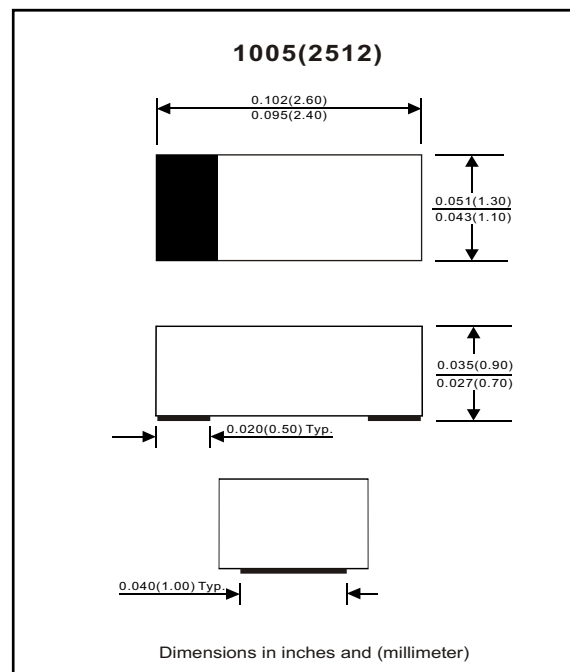


### Features

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

### Mechanical data

- Case: 1005(2512) standard package molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any
- Weight: 0.006 gram(approx.).



### Maximum Rating (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Parameter                       | Conditions                                                          | Symbol    | Min | Typ | Max  | Unit               |
|---------------------------------|---------------------------------------------------------------------|-----------|-----|-----|------|--------------------|
| Repetitive peak reverse voltage |                                                                     | $V_{RRM}$ |     |     | 35   | V                  |
| Reverse voltage                 |                                                                     | $V_R$     |     |     | 30   | V                  |
| Average forward current         |                                                                     | $I_o$     |     |     | 200  | mA                 |
| Forward current,surge peak      | 8.3ms single half sine-wave superimposed on rate load(JEDEC method) | $I_{FSM}$ |     |     | 1    | A                  |
| Storage temperature             |                                                                     | $T_{STG}$ | -40 |     | +125 | $^{\circ}\text{C}$ |
| Junction temperature            |                                                                     | $T_j$     |     |     | +125 | $^{\circ}\text{C}$ |

### Electrical Characteristics (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Parameter       | Conditions             | Symbol | Min | Typ | Max | Unit          |
|-----------------|------------------------|--------|-----|-----|-----|---------------|
| Forward voltage | $I_F = 200 \text{ mA}$ | $V_F$  |     |     | 0.5 | V             |
| Reverse current | $V_R = 10 \text{ V}$   | $I_R$  |     |     | 30  | $\mu\text{A}$ |

REV:A

## RATING AND CHARACTERISTIC CURVES (CDBFU0230L)

Fig. 1 - Forward characteristics

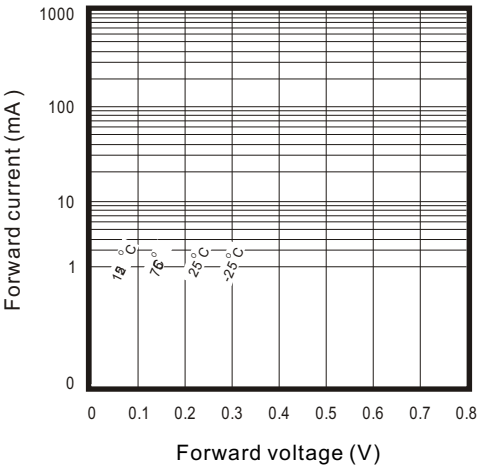


Fig. 2 - Reverse characteristics

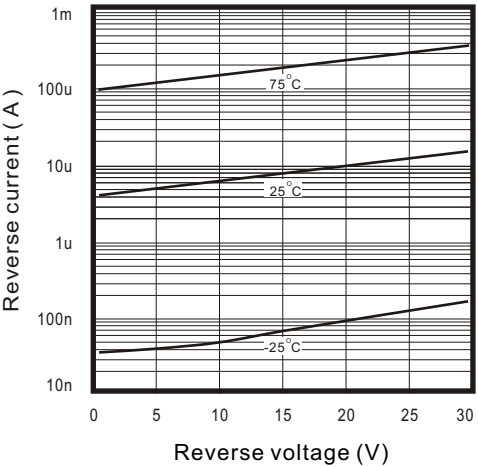


Fig.3 - Capacitance between terminals characteristics

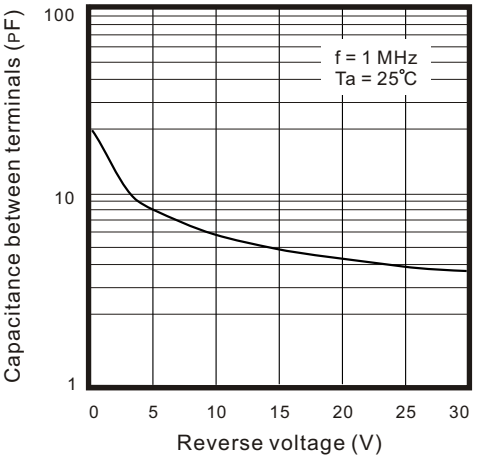


Fig.4 - Current derating curve

