

# Shottky barrier diode

## (Silicon Epitaxial Planer)

### RB480Y

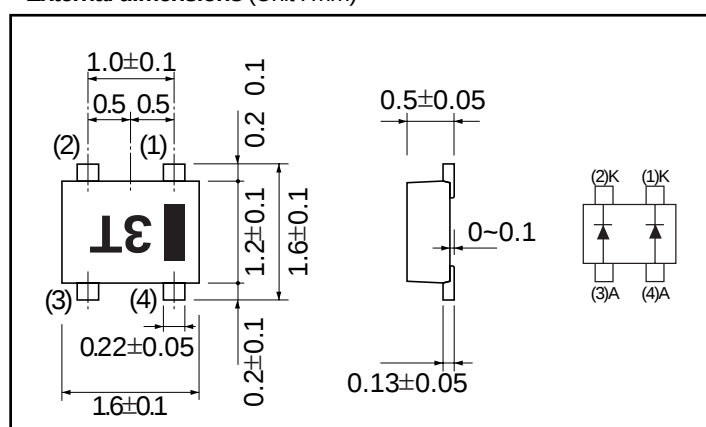
#### ●Applications

Rectifying small power

#### ●Features

- 1) Ultra small mold type (EMD4)
- 2) High reliability

#### ●External dimensions (Unit : mm)



#### ●Absolute maximum ratings (Ta=25°C)

| Parameter                                   | Symbol    | Limits      | Unit |
|---------------------------------------------|-----------|-------------|------|
| Reverse voltage                             | $V_R$     | 30          | V    |
| Average rectified forward current *         | $I_o$     | 100         | A    |
| Forward current surge peak (60Hz · 1cyc.) * | $I_{FSM}$ | 1           | A    |
| Junction temperature                        | $T_j$     | 125         | °C   |
| Storage temperature                         | $T_{stg}$ | -40 to +125 | °C   |

\*60Hz for 1  $\varnothing$

#### ●Electrical characteristics (Ta=25°C)

| Parameter       | Symbol   | Min. | Typ. | Max.  | Unit    | Conditions  |
|-----------------|----------|------|------|-------|---------|-------------|
| Forward voltage | $V_{F1}$ | —    | —    | 0.38  | V       | $I_F=1mA$   |
|                 | $V_{F2}$ | —    | —    | 0.430 | V       | $I_F=10mA$  |
|                 | $V_{F3}$ | —    | —    | 0.530 | V       | $I_F=100mA$ |
| Reverse current | $I_R$    | —    | —    | 1.0   | $\mu A$ | $V_R=10V$   |

\* Please pay attention to static electricity when handling.

## Diodes

## ●Electrical characteristic curves (Ta=25°C)

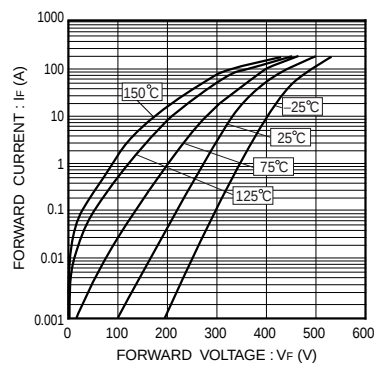


Fig.1 Forward temperature characteristics

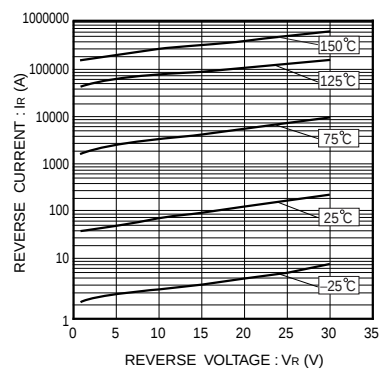


Fig.2 Reverse temperature characteristics

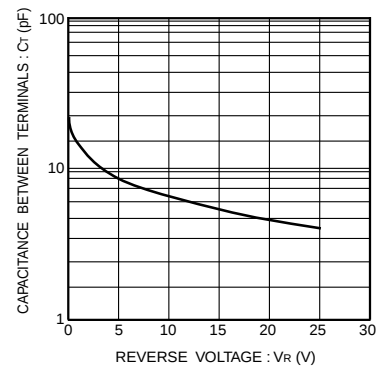


Fig.3 Capacitance between terminals characteristics