

### ●Applications

Low current rectification

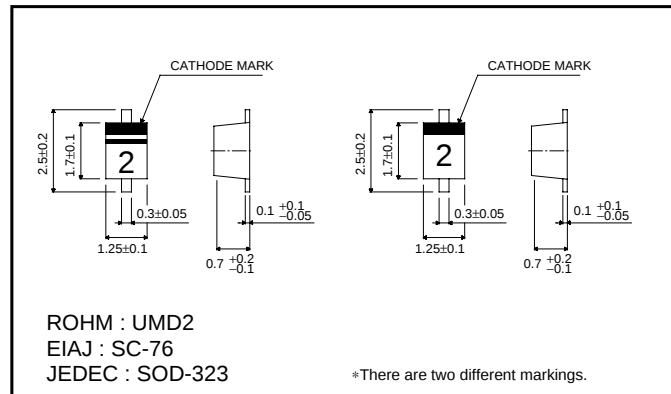
### ●Features

- 1) Small surface mounting type. (UMD2)
- 2) Low  $I_R$ . ( $I_R=70nA$  Typ.)
- 3) High reliability.

### ●Construction

Silicon epitaxial planar

### ●External dimensions (Units : mm)



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

| Parameter                   | Symbol    | Limits   | Unit |
|-----------------------------|-----------|----------|------|
| Peak reverse voltage        | $V_{RM}$  | 45       | V    |
| DC reverse voltage          | $V_R$     | 40       | V    |
| Mean rectifying current     | $I_o$     | 0.1      | A    |
| Peak forward surge current* | $I_{FSM}$ | 1        | A    |
| Junction temperature        | $T_j$     | 125      | °C   |
| Storage temperature         | $T_{stg}$ | -40~+125 | °C   |

\* 60Hz for 1 

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

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit    | Conditions        |
|-------------------------------|--------|------|------|------|---------|-------------------|
| Forward voltage               | $V_F$  | —    | —    | 0.45 | V       | $I_F=10mA$        |
| Reverse current               | $I_R$  | —    | —    | 1    | $\mu A$ | $V_R=10V$         |
| Capacitance between terminals | $C_T$  | —    | 6.0  | —    | pF      | $V_R=10V, f=1MHz$ |

Note) ESD sensitive product handling required.

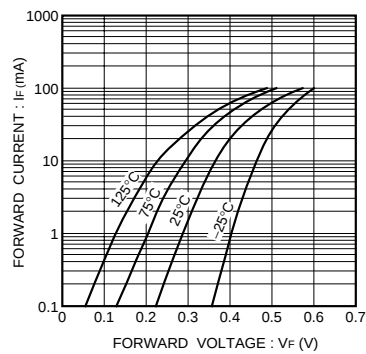


Fig. 1 Forward characteristics

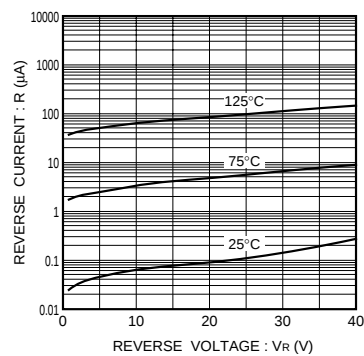


Fig. 2 Reverse characteristics

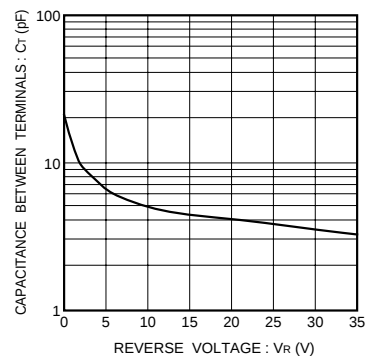


Fig. 3 Capacitance between terminals characteristics

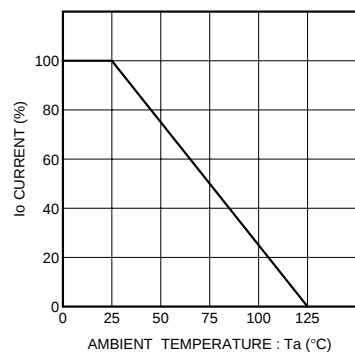


Fig. 4 Derating curve  
(mounting on glass epoxy PCBs)