



SDB310WMU

Schottky Barrier Diode

Features

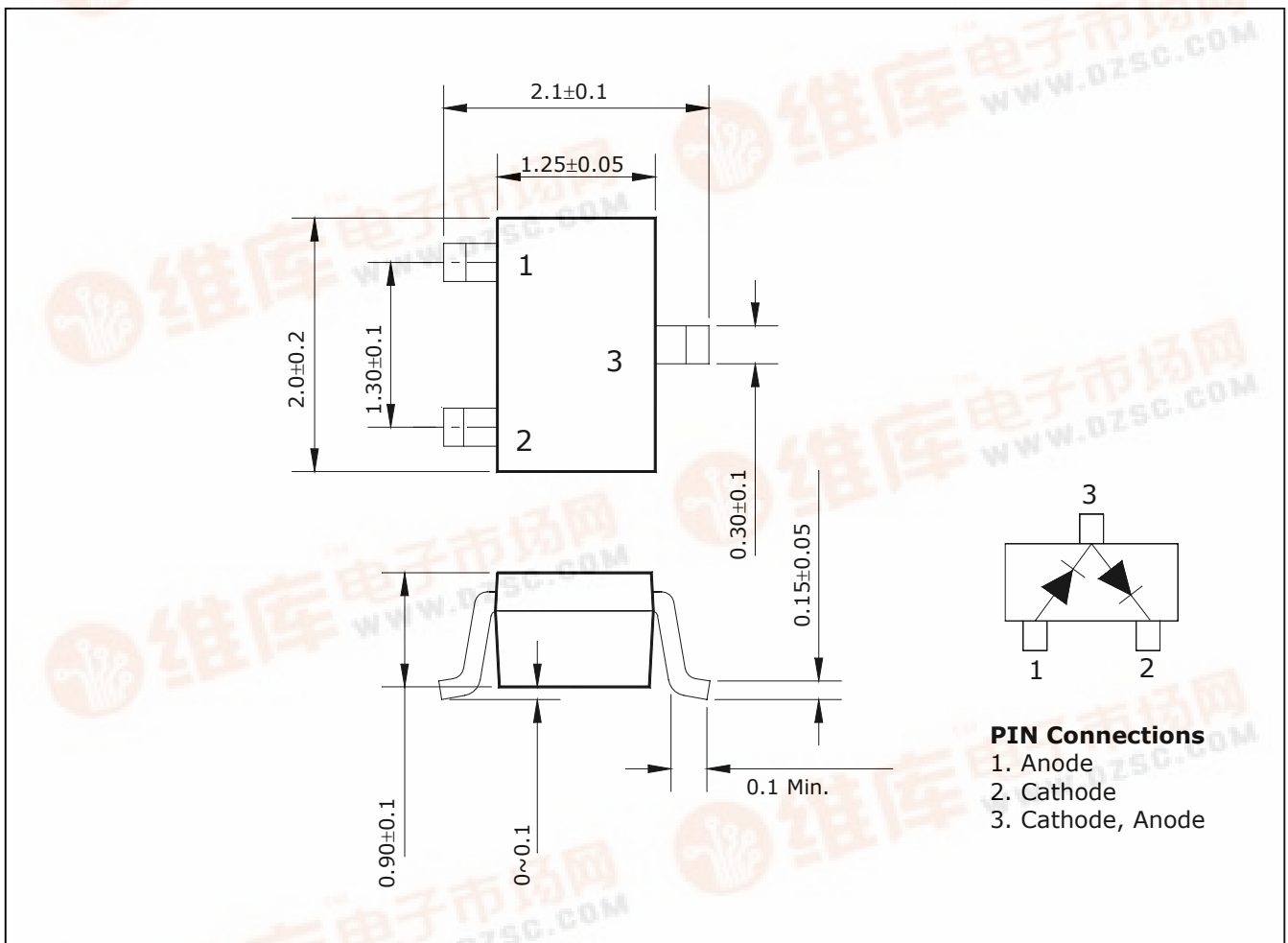
- Low power rectified
- Silicon epitaxial type
- High reliability

Ordering Information

| Type No. | Marking | Package Code |
|-----------|---------|--------------|
| SDB310WMU | DB3 | SOT-323 |

Outline Dimensions

unit : mm



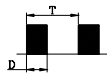
SDB310WMU

Absolute maximum ratings

Ta=25°C

| Characteristic | Symbol | Ratings | Unit |
|---|--------------------|-----------|------|
| Reverse voltage | V _R | 30 | V |
| Repetitive peak forward current | I _{FRM} * | 0.5 | A |
| Forward current | I _F | 0.2 | A |
| Non-repetitive peak forward current(10ms) | I _{FSM} | 2 | A |
| Power dissipation | P _D | 150 | mW |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 ~ 150 | °C |

* : $\delta = D/T = 0.33$
(T<1S)



* : Unit ratings. Total rating=Unit rating×1.5

Electrical Characteristics

Ta=25°C

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-----------------------|-------------------|--|------|------|------|------|
| Forward voltage 1 | V _{F(1)} | I _F =10mA | - | - | 0.4 | V |
| Forward voltage 2 | V _{F(2)} | I _F =30mA | - | - | 0.5 | V |
| Reverse current | I _R | V _R =30V | - | - | 1 | μA |
| Total capacitance | C _T | V _R =1V, f=1MHz | - | - | 10 | pF |
| Reverse recovery time | t _{rr} | I _F = I _R =10mA, I _{RR} = 1mA, R _L =100Ω | - | - | 5 | ns |

Electrical Characteristic Curves

Fig. 1 $I_F - V_F$

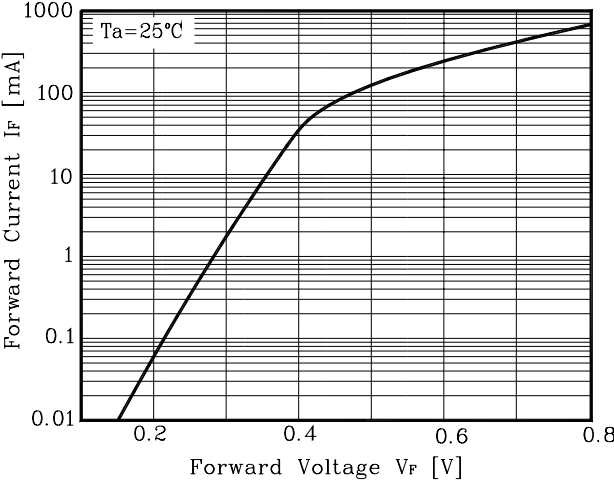


Fig. 2 $I_R - V_R$

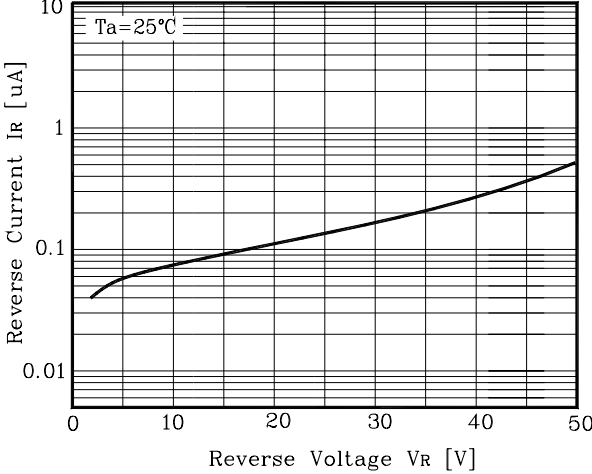
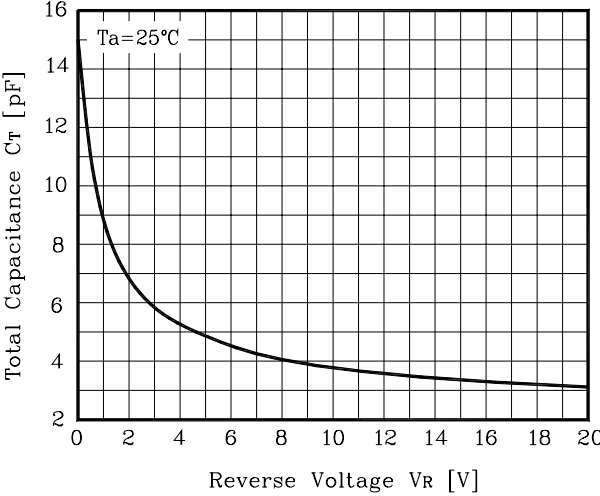


Fig. 3 $C_T - V_R$



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