

Features

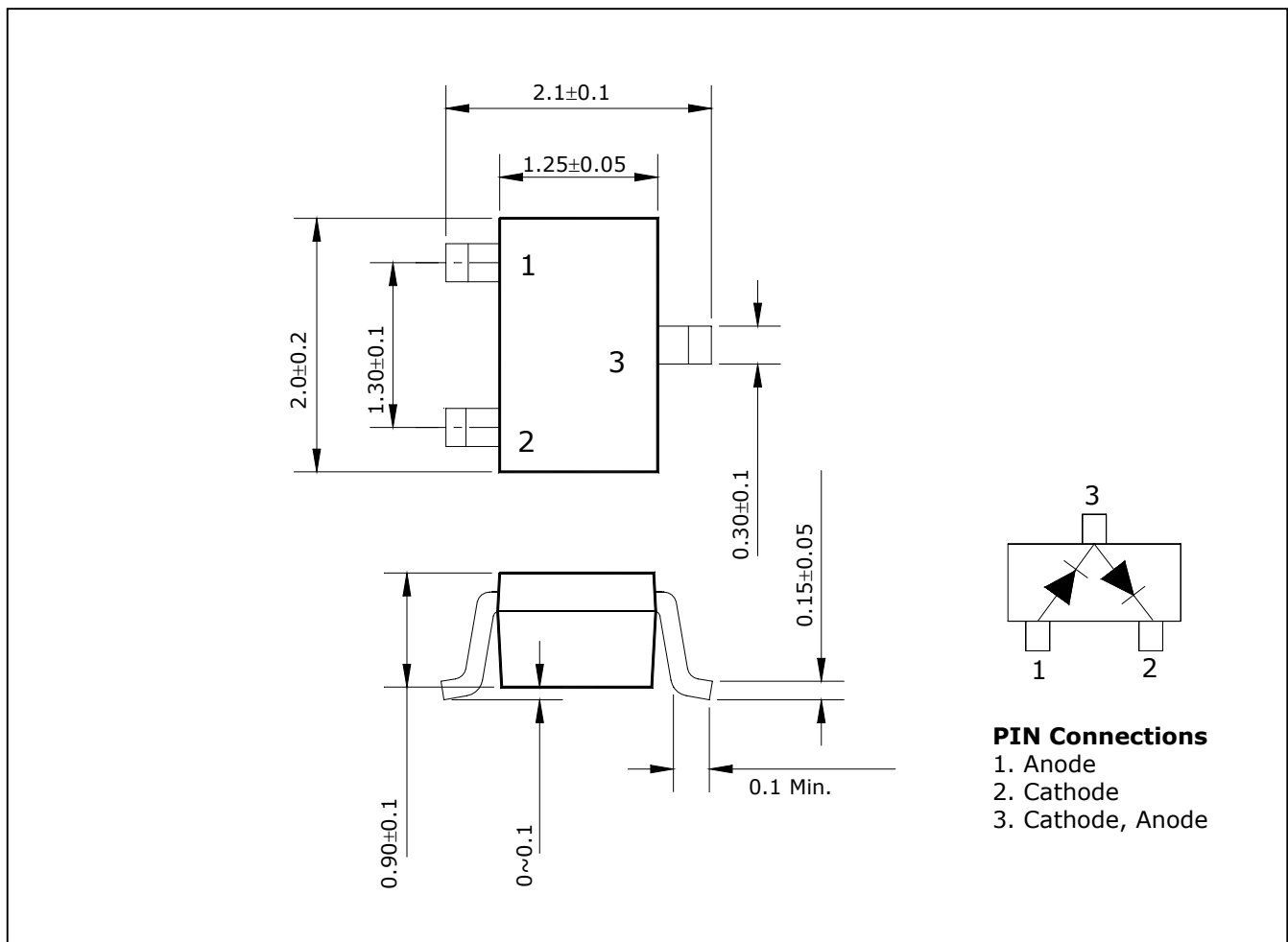
- Low power rectified
- Silicon epitaxial type
- High reliability

Ordering Information

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

Outline Dimensions

unit : mm



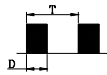
Absolute maximum ratings

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} | $I_F = I_R = 10mA, I_{RR} = 1mA, R_L = 100\Omega$ | - | - | 5 | ns |

Electrical Characteristic Curves

Fig. 1 $I_F - V_F$

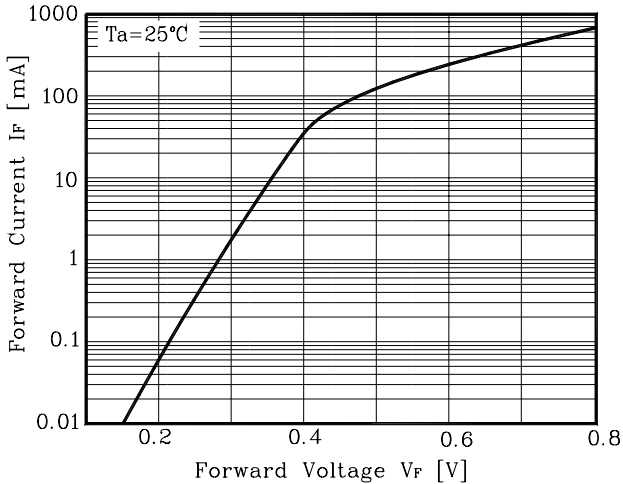


Fig. 2 $I_R - V_R$

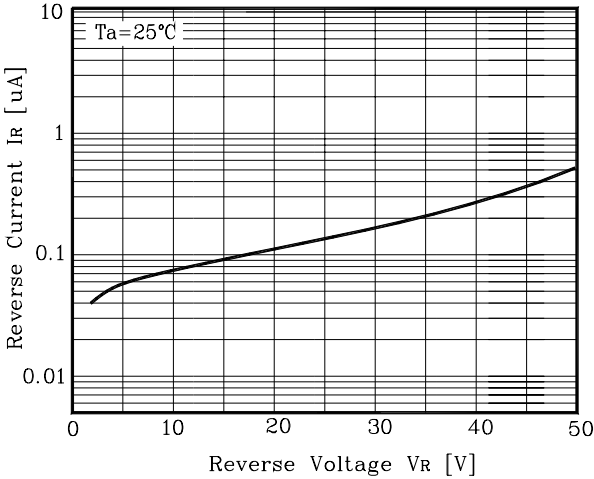
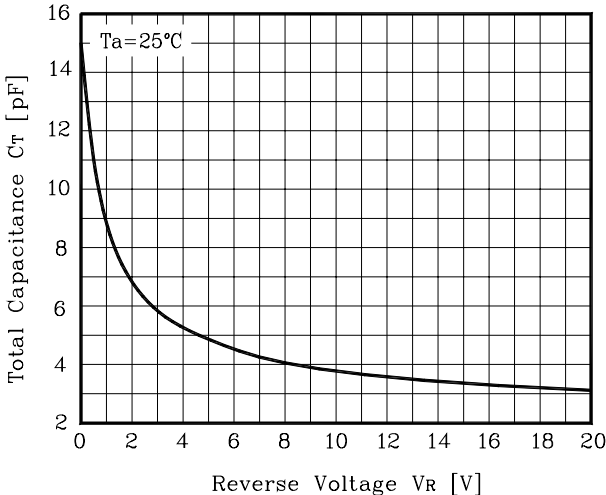


Fig. 3 $C_T - V_R$



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