

Features

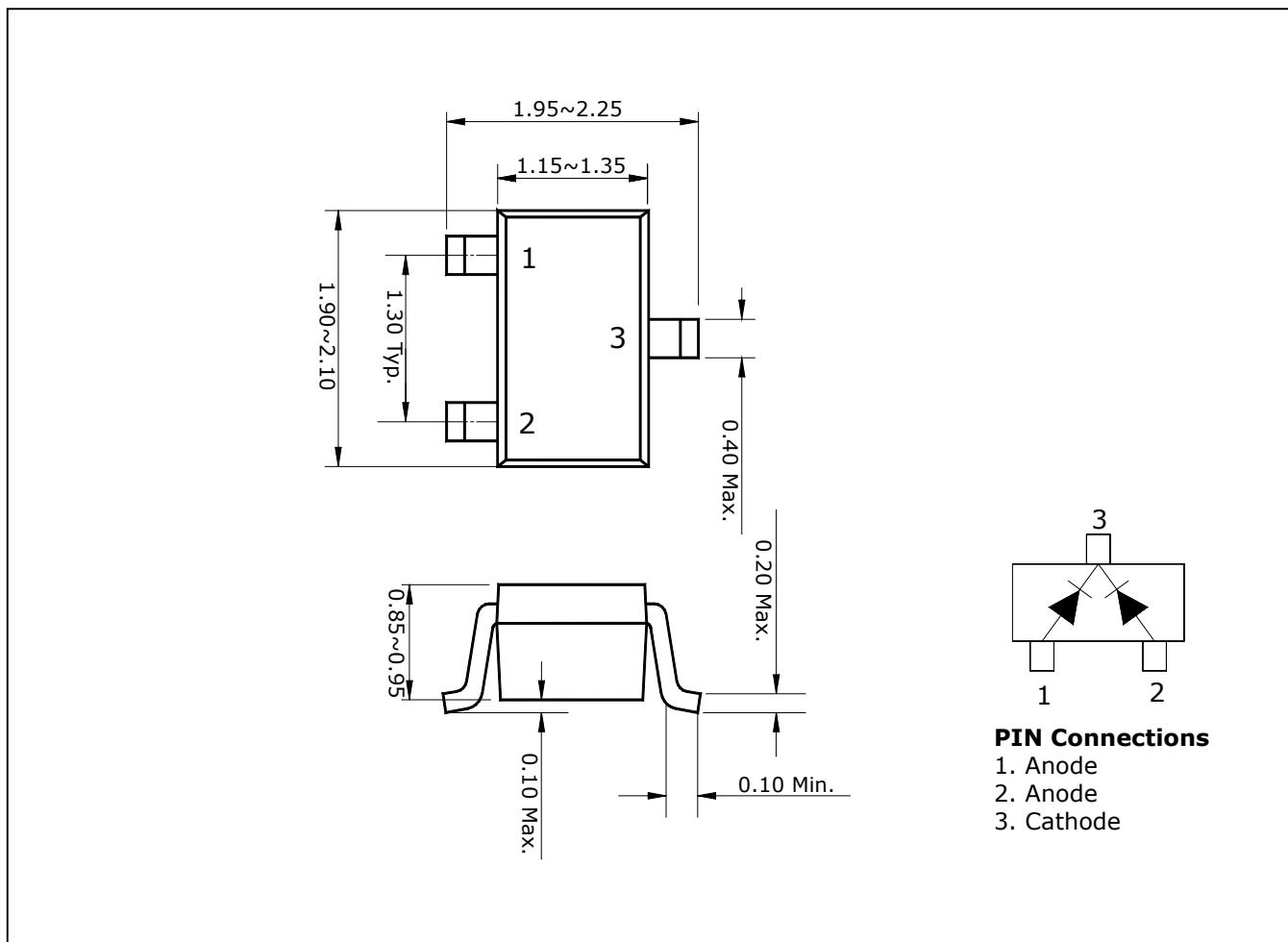
- Low V_F (Max. 0.5V @ 30mA)
- Low I_R (Max. 1 μ A @ 30V)
- High reliability

Ordering Information

| Type No. | Marking | Package Code |
|-----------|---------|--------------|
| SDB310WКУ | DB8 | SOT-323 |

Outline Dimensions

unit : mm



Absolute maximum ratings

Ta=25°C

| Characteristic | Symbol | Rating | Unit |
|-------------------------------------|-------------|-----------|------|
| Reverse voltage | V_R | 30 | V |
| Forward current | I_F | 200 | mA |
| Non-repetitive peak forward current | $I_{FSM} *$ | 2 | A |
| Power dissipation | P_D | 150 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature range | T_{stg} | -55 ~ 150 | °C |

* 60Hz , 1 cycle.

Electrical Characteristics

Ta=25°C

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-------------------|----------|------------------|------|------|------|------|
| Forward voltage | V_{F1} | $I_F=10mA$ | - | - | 0.4 | V |
| | V_{F2} | $I_F=30mA$ | - | - | 0.5 | |
| Reverse current | I_R | $V_R=30V$ | - | - | 1 | μA |
| Total capacitance | C_T | $V_R=1V, f=1MHz$ | - | 10 | - | pF |

Electrical Characteristic Curves

Fig. 1 I_F - V_F

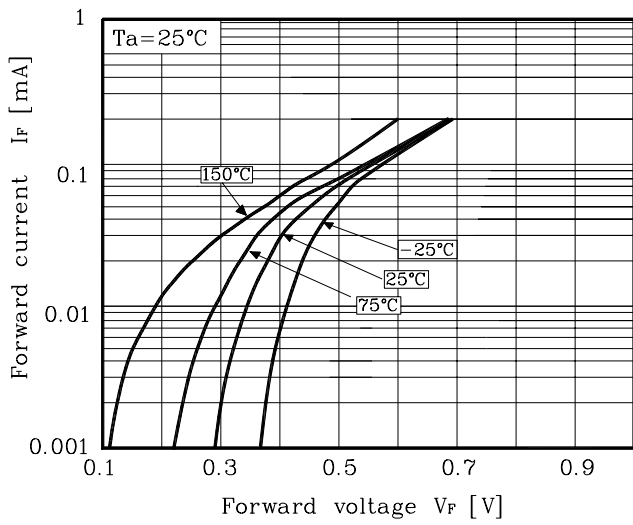


Fig. 2 I_R - V_R

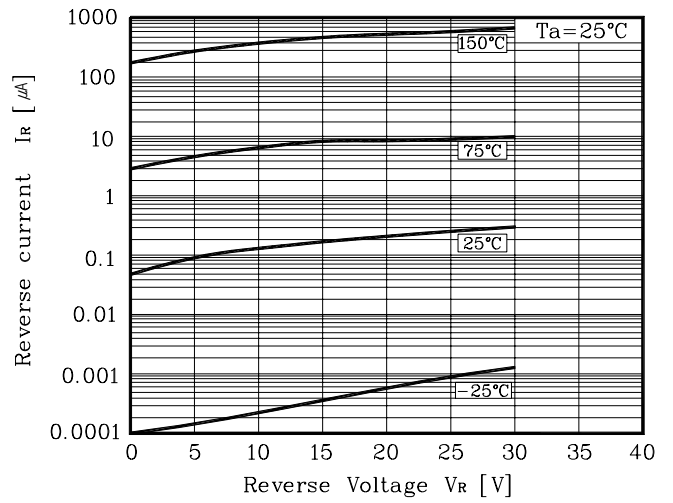
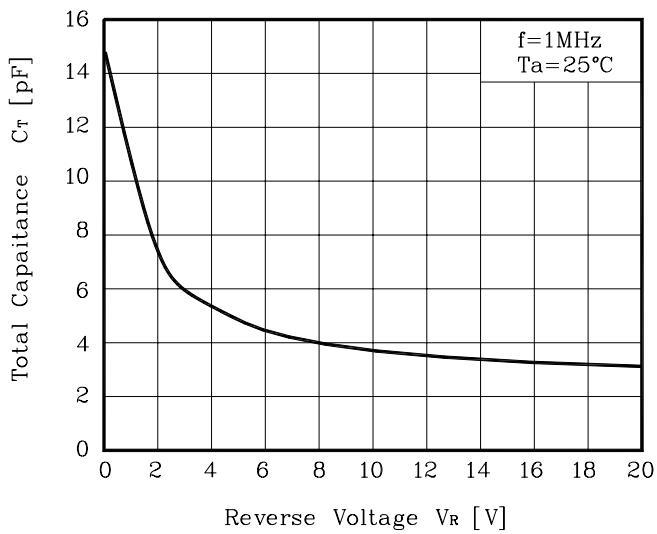


Fig. 3 C_T - V_R



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