

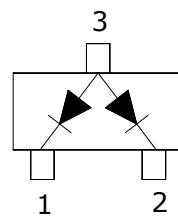
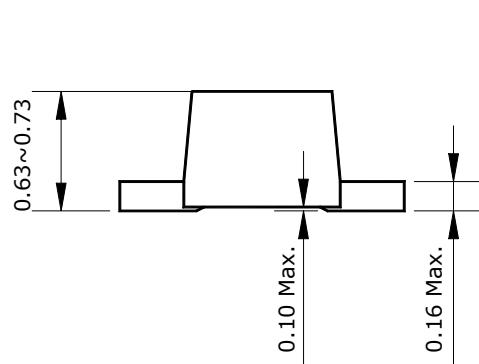
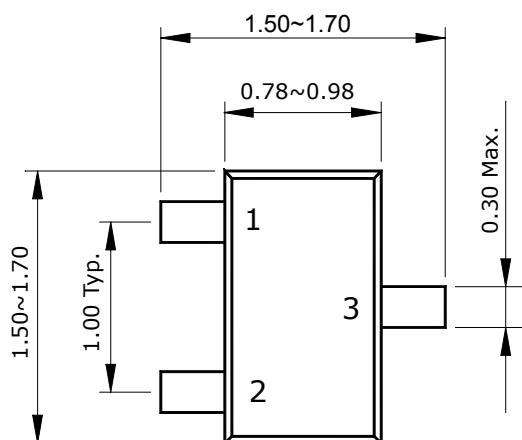
Features

- SMD package : SOT-523F
- Low forward voltage : $V_F=0.9V$ (Typ.)
- Fast reverse recovery time : $t_{rr}=1.6\text{ ns}$ (Typ.)
- Small total capacitance : $C_T=2.2\text{ pF}$ (Typ.)

Ordering Information

| Type No. | Marking | Package Code |
|-----------|---------|--------------|
| SDS2836EF | P2 | SOT-523F |

Outline Dimensions

unit : mm


PIN Connections

1. Cathode
2. Cathode
3. Anode, Anode

Absolute maximum ratings

Ta=25°C

| Characteristic | Symbol | Rating | Unit |
|----------------------------------|-------------------------------|-----------|------|
| Peak reverse voltage | V _{RM} | 85 | V |
| Reverse voltage | V _R | 80 | V |
| Peak forward current | I _{FM} [*] | 300 | mA |
| Average forward current | I _O [*] | 100 | mA |
| Peak forward surge current(10ms) | I _{FSM} [*] | 2 | A |
| Power dissipation | P _D | 150 | mW |
| Junction temperature | T _j | 150 | °C |
| Storage temperature range | T _{stg} | -55 ~ 150 | °C |

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

Electrical Characteristics

Ta=25°C

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-----------------------|-------------------|--------------------------------|------|------|------|------|
| Forward voltage | V _{F(1)} | I _F =1 mA | - | 0.6 | - | V |
| | V _{F(2)} | I _F =10 mA | - | 0.7 | - | |
| | V _{F(3)} | I _F =100 mA | - | 0.9 | 1.2 | |
| Reverse current | I _R | V _R =80V | - | - | 0.5 | μA |
| Total capacitance | C _T | V _R =0, f=1 MHz | - | 2.2 | 4.0 | pF |
| Reverse recovery time | t _{rr} | I _F =10 mA (Fig. 5) | - | 1.6 | 4.0 | ns |

Electrical Characteristic Curves

Fig. 1 I_F - V_F

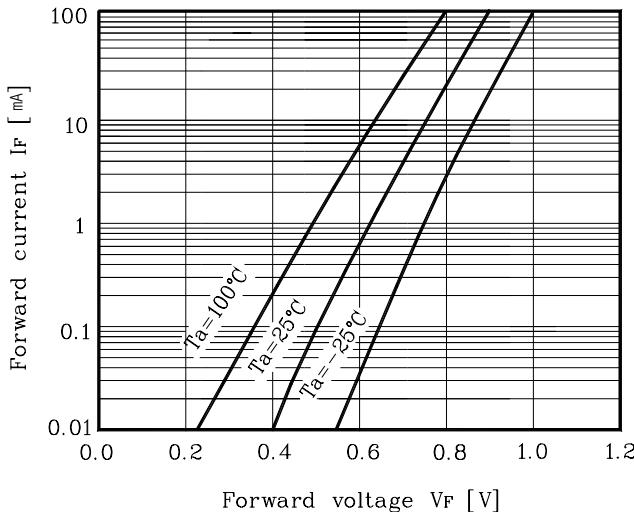


Fig. 2 I_R - V_R

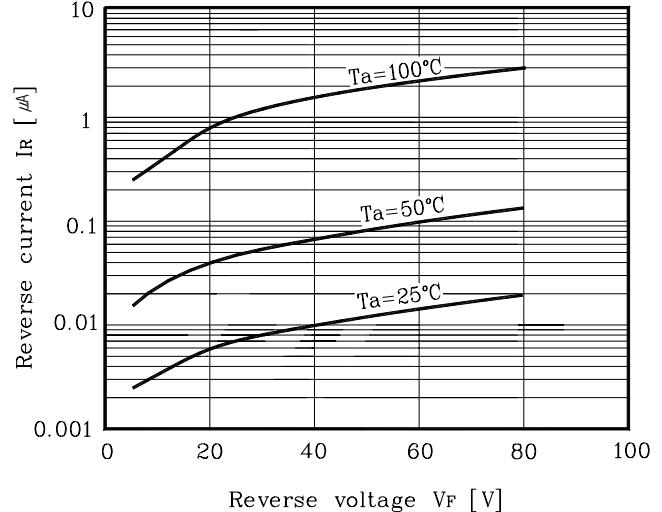


Fig. 3 C_T - V_R

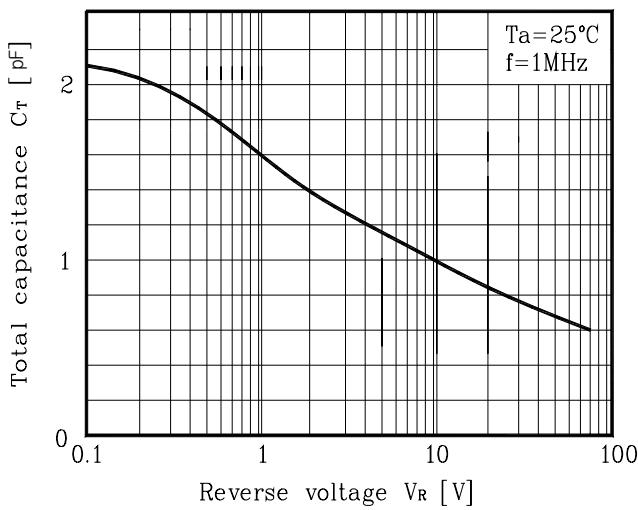


Fig. 4 trr- I_F

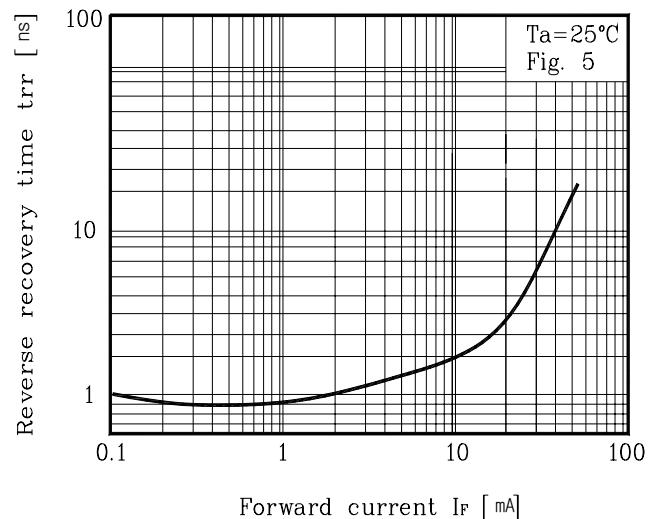
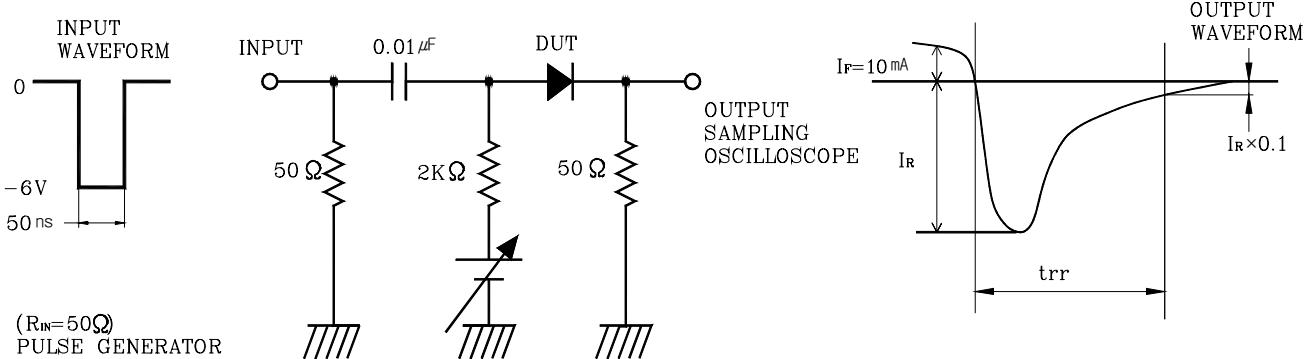


Fig. 5 Reverse recovery time(trr) test circuit



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