

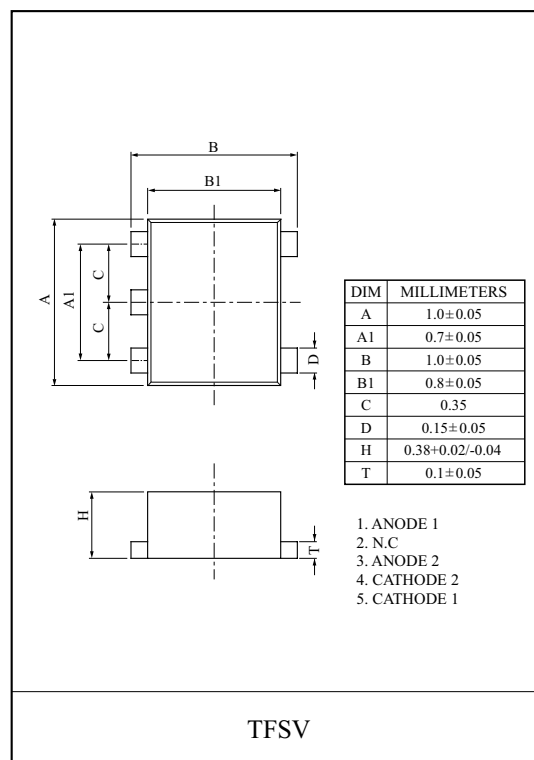
ULTRA HIGH SPEED SWITCHING APPLICATION.

## FEATURES

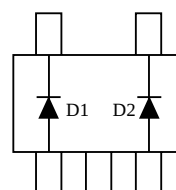
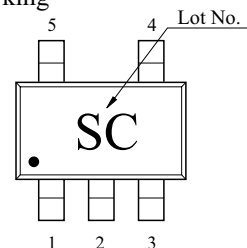
- Small package : TFSV.
- Low forward voltage.
- Fast reverse recovery time.
- Small total capacitance.

## MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                 | SYMBOL    | RATING    | UNIT |
|--------------------------------|-----------|-----------|------|
| Maximum (Peak) Reverse Voltage | $V_{RM}$  | 85        | V    |
| Reverse Voltage                | $V_R$     | 80        | V    |
| Maximum (Peak) Forward Current | $I_{FM}$  | 300       | mA   |
| Average Forward Current        | $I_O$     | 100       | mA   |
| Surge Current (10mS)           | $I_{FSM}$ | 2         | A    |
| Power Dissipation              | $P_D$ *   | 100       | mW   |
| Junction Temperature           | $T_j$     | 150       | °C   |
| Storage Temperature Range      | $T_{stg}$ | -55 ~ 150 | °C   |

\* : Unit rating. Total rating=unit rating  $\times$  1.5

## Marking



## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC        | SYMBOL     | TEST CONDITION   | MIN. | TYP. | MAX. | UNIT    |
|-----------------------|------------|------------------|------|------|------|---------|
| Forward Voltage       | $V_{F(1)}$ | $I_F=1mA$        | -    | 0.60 | -    | V       |
|                       | $V_{F(2)}$ | $I_F=10mA$       | -    | 0.72 | -    |         |
|                       | $V_{F(3)}$ | $I_F=100mA$      | -    | 0.90 | 1.20 |         |
| Reverse Current       | $I_R$      | $V_R=80V$        | -    | -    | 0.5  | $\mu A$ |
| Total Capacitance     | $C_T$      | $V_R=0V, f=1MHz$ | -    | 0.9  | 3.0  | pF      |
| Reverse Recovery Time | $t_{rr}$   | $I_F=10mA$       | -    | 1.6  | 4.0  | ns      |

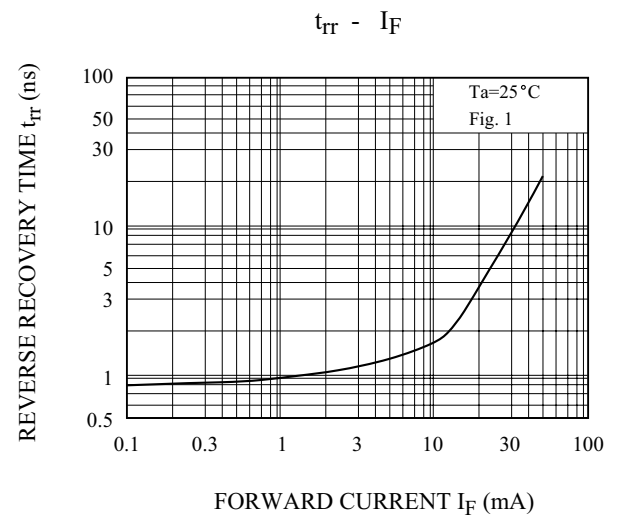
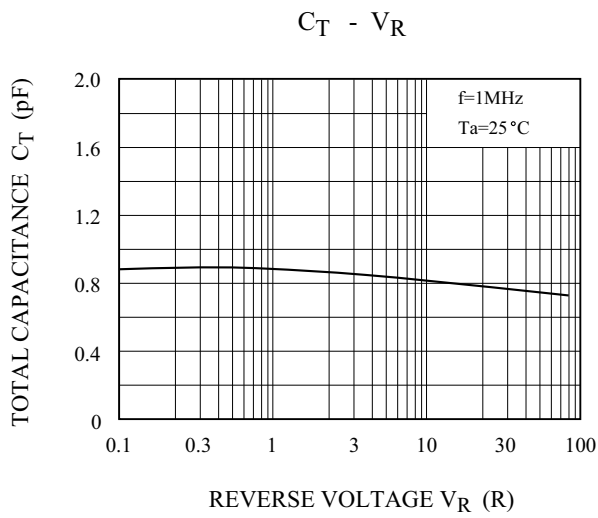
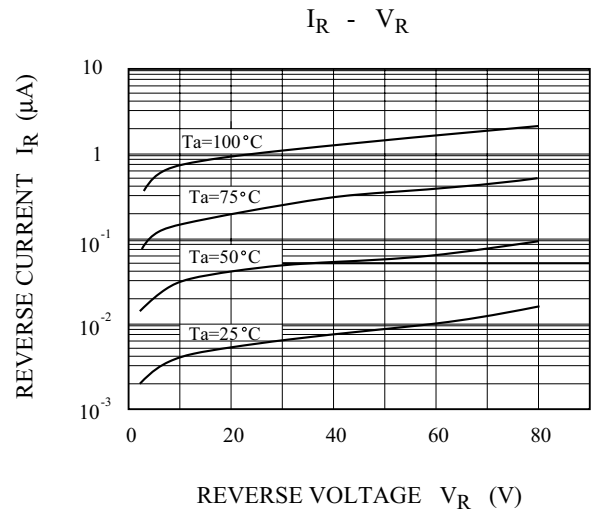
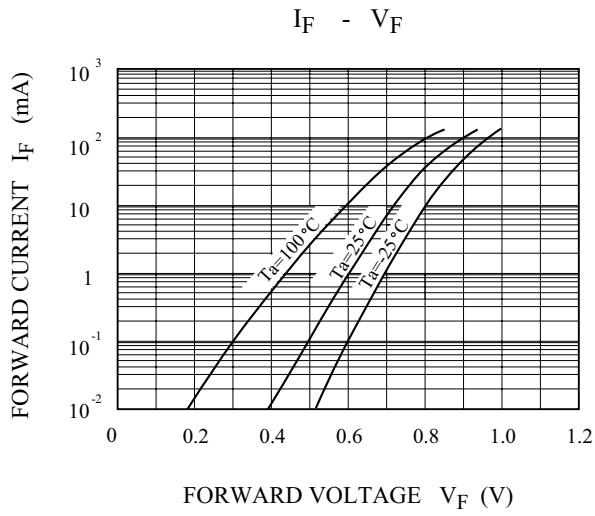


Fig. 1. REVERSE RECOVERY TIME ( $t_{rr}$ ) TEST CIRCUIT

