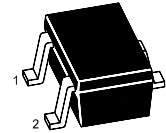
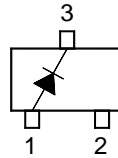


# 1SS370W

## Silicon Epitaxial Planar Diodes

High Voltage Switching Diode

For high voltage and high speed switching applications



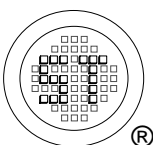
SOT-323 Plastic Package  
Marking Code: F5

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

| Parameter  | Symbol      | Value         | Unit             |
|--|-------------|---------------|------------------|
| Maximum Peak Reverse Voltage                                       | $V_{RM}$    | 250           | V                |
| Reverse Voltage  | $V_R$       | 200           | V                |
| Average Rectified Forward Current                                  | $I_{F(AV)}$ | 100           | mA               |
| Maximum Peak Forward Current                                       | $I_{FM}$    | 300           | mA               |
| Non-repetitive Peak Forward Surge Current ( $t_p = 10\text{ ms}$ ) | $I_{FSM}$   | 2             | A                |
| Power Dissipation  | $P_D$       | 200           | mW               |
| Junction Temperature   | $T_j$       | 150           | $^\circ\text{C}$ |
| Storage Temperature Range  | $T_{stg}$   | - 55 to + 150 | $^\circ\text{C}$ |

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter  | Symbol         | Max.     | Unit          |
|--|----------------|----------|---------------|
| Forward Voltage<br>at $I_F = 10\text{ mA}$<br>at $I_F = 100\text{ mA}$ | $V_F$<br>$V_F$ | 1<br>1.2 | V             |
| Reverse Current<br>at $V_R = 50\text{ V}$<br>at $V_R = 200\text{ V}$   | $I_R$<br>$I_R$ | 0.1<br>1 | $\mu\text{A}$ |
| Total Capacitance<br>at $V_R = 0$ , $f = 1\text{ MHz}$                 | $C_T$          | 3        | pF            |
| Reverse Recovery Time<br>at $I_F = 10\text{ mA}$                       | $t_{rr}$       | 60       | ns            |

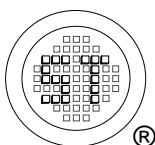
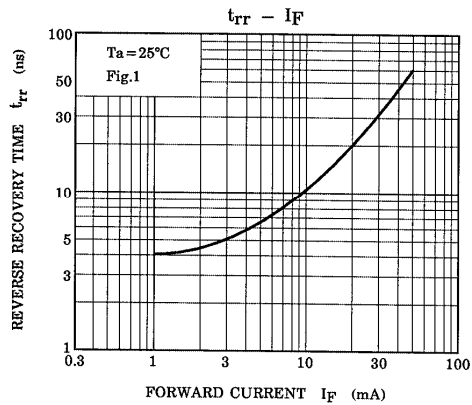
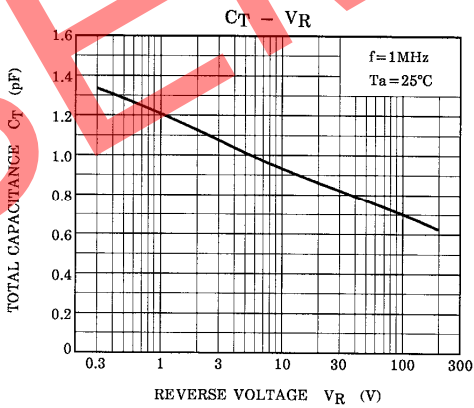
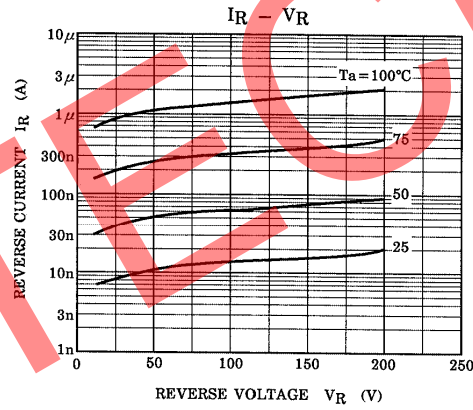
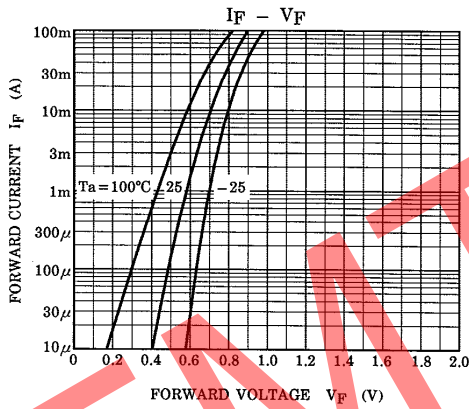
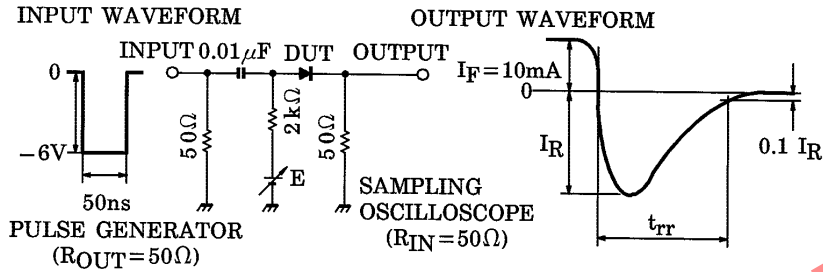


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Dated : 15/06/2009

Reverse Recovery Time ( $t_{rr}$ ) Test Circuit



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