

ULTRA HIGH SPEED SWITCHING APPLICATION.

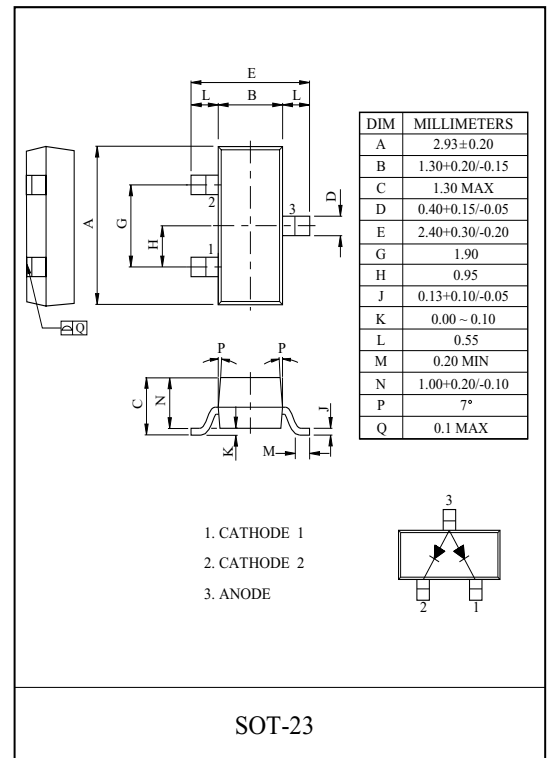
FEATURES

- Small Package : SOT-23.
- Low Forward Voltag : $V_F=0.92V(\text{Typ.})$.
- Fast Reverse Recovery Time : $t_{rr}=1.6ns(\text{Typ.})$.
- Small Total Capacitance : $C_T=2.2pF(\text{Typ.})$.

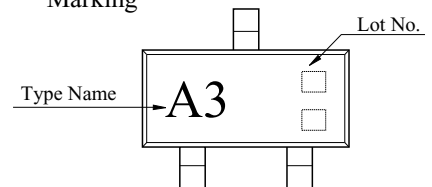
MAXIMUM RATING (Ta=25)

| 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 | 150 | mW |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

Note : *Unit Rating. Total Rating=Unit Rating x 1.5



Marking



ELECTRICAL CHARACTERISTICS (Ta=25)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-----------------------|------------|-----------------|------|------|------|------|
| Forward Voltage | $V_{F(1)}$ | $I_F=1mA$ | - | 0.61 | - | V |
| | $V_{F(2)}$ | $I_F=10mA$ | - | 0.74 | - | |
| | $V_{F(3)}$ | $I_F=100mA$ | - | 0.92 | 1.20 | |
| Reverse Current | I_R | $V_R=80V$ | - | - | 0.5 | μA |
| Total Capacitance | C_T | $V_R=0, f=1MHz$ | - | 2.2 | 4.0 | pF |
| Reverse Recovery Time | t_{rr} | $I_F=10mA$ | - | 1.6 | 4.0 | nS |

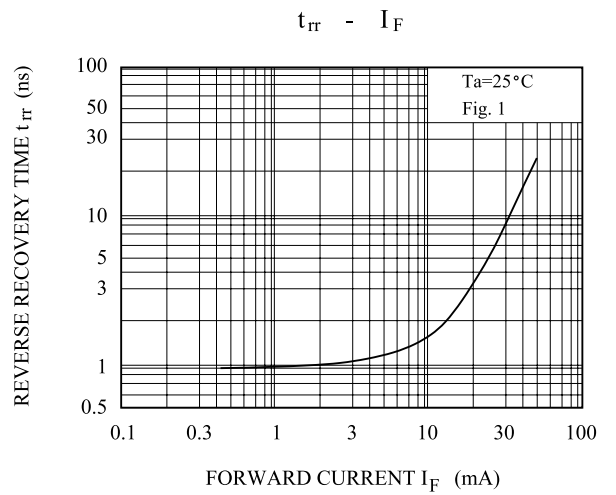
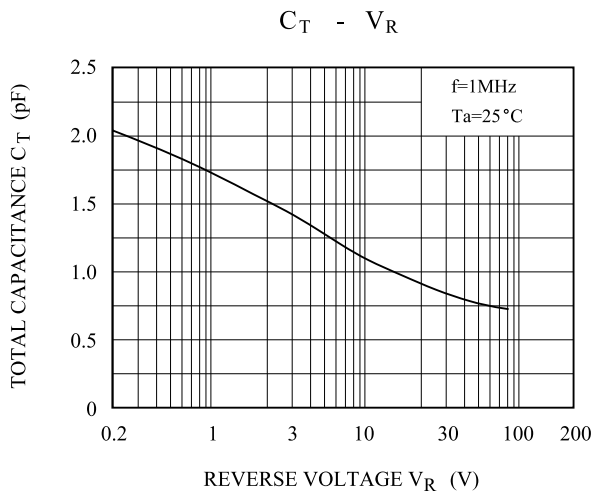
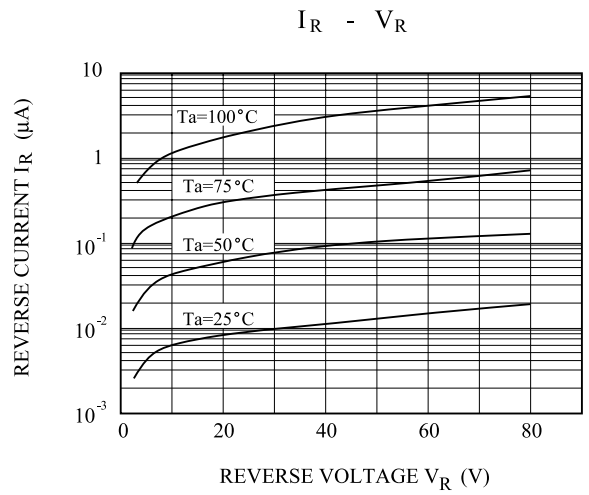
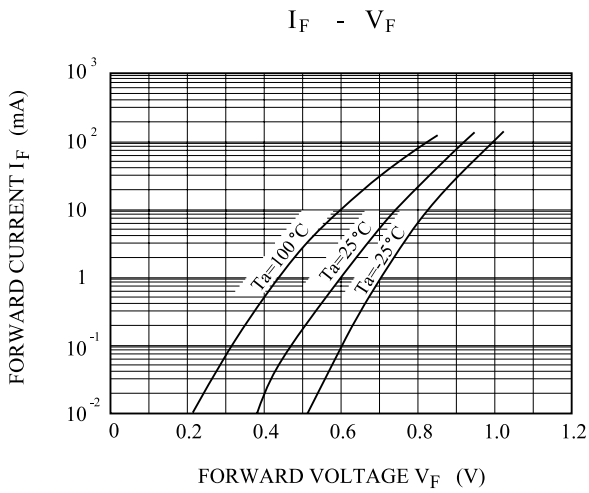
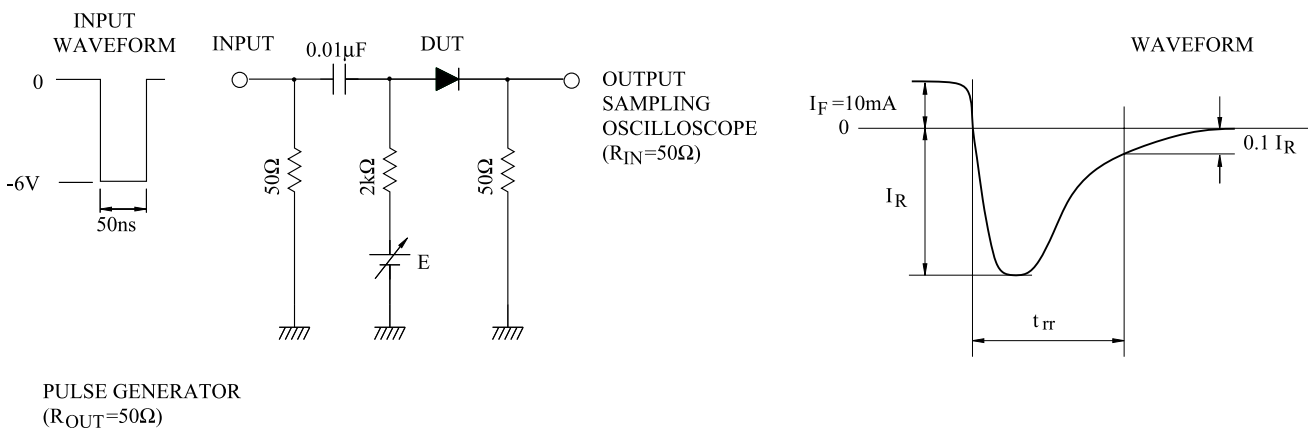


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



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