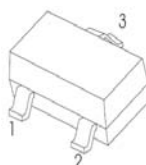


Features

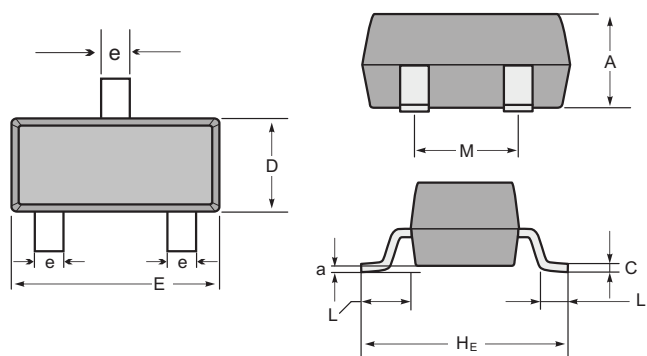
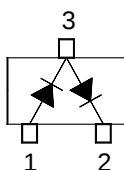
- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

Applications

- Ultra high speed switching application



SOT-23



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V _{RM}	85	V
Reverse Voltage	V _R	80	V
Average Rectified Forward Current	I _{F(AV)}	100	mA
Maximum Peak Forward Current	I _{FM}	300	mA
Non-repetitive Peak Forward Surge Current (10 ms)	I _{FSM}	2	A
Power Dissipation	P _{tot}	350	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

1SS226

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	V_F	1.2	V
Reverse Current at $V_R = 80\text{ V}$	I_R	0.5	μA
Total Capacitance at $V_R = 0$, $f = 1\text{ MHz}$	C_T	3	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$	t_{rr}	4	ns

RATING AND CHARACTERISTIC CURVES (1SS226)

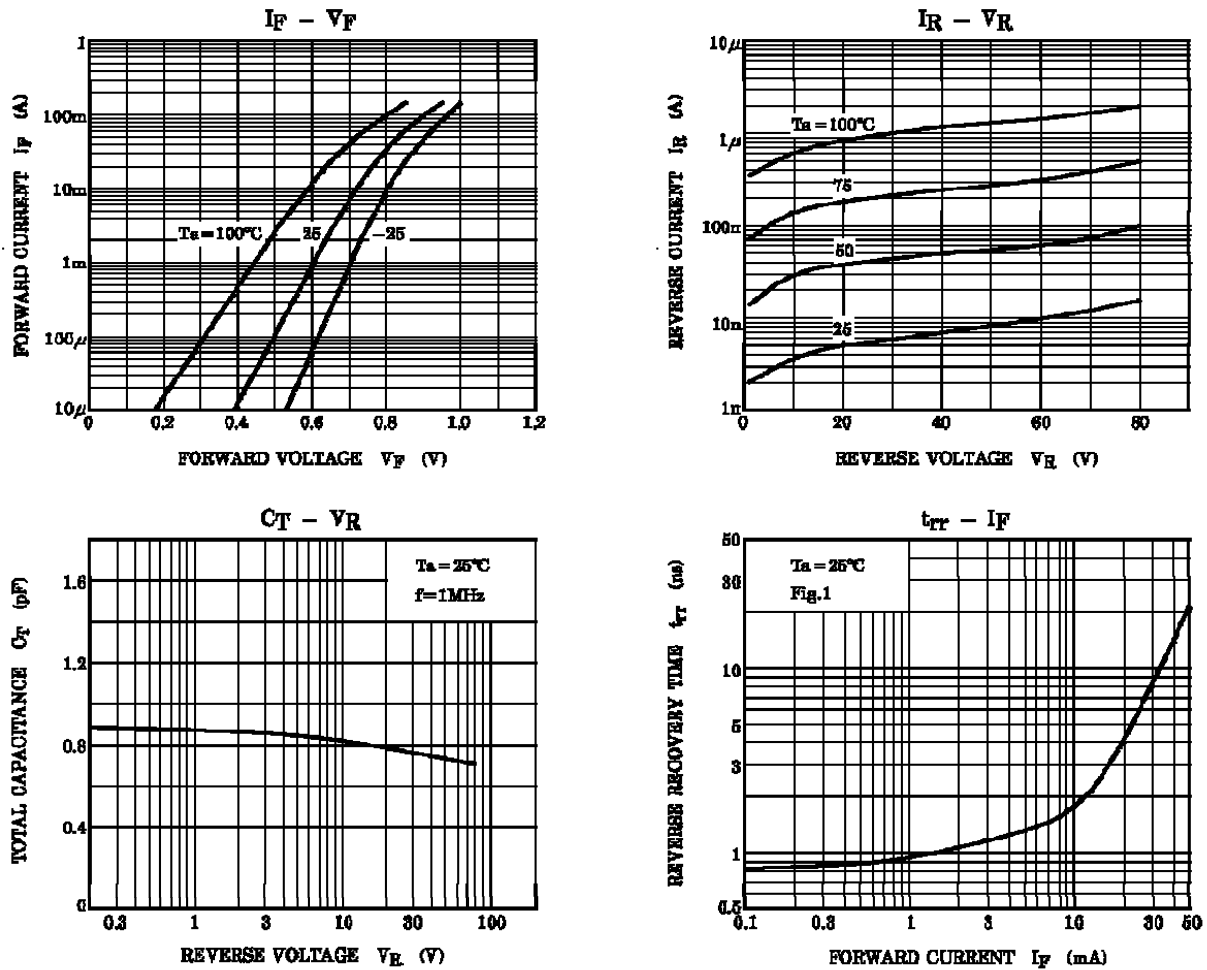


Fig.1 Reverse recovery time (t_{rr}) test circuit

