

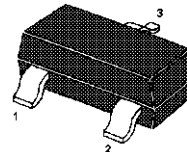
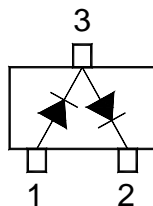
# 1SS226

## SILICON EPITAXIAL PLANAR DIODE

SOT-23

### Features

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



Marking Code: FC

SOT-23 Plastic Package

### Applications

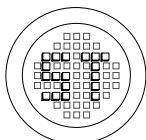
Ultra high speed switching application

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	85	V
Reverse Voltage	$V_R$	80	V
Maximum Peak Forward Current	$I_{FM}$	300	mA
Surge Current (10ms)	$I_{FSM}$	2	A
Average Forward Current	$I_O$	100	mA
Power Dissipation	$P_{tot}$	150	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Min	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	$\mu\text{A}$
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



®

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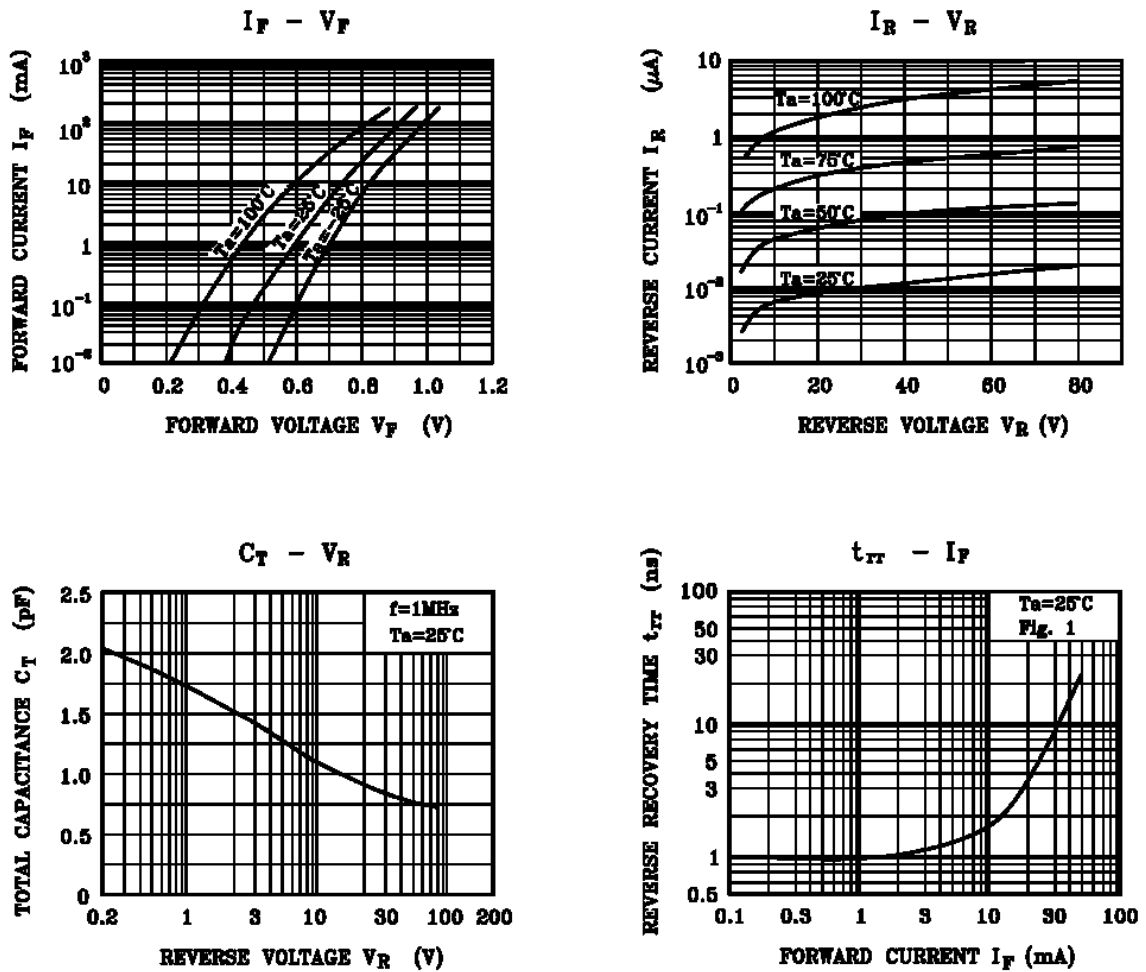
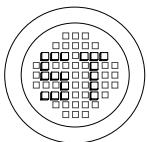
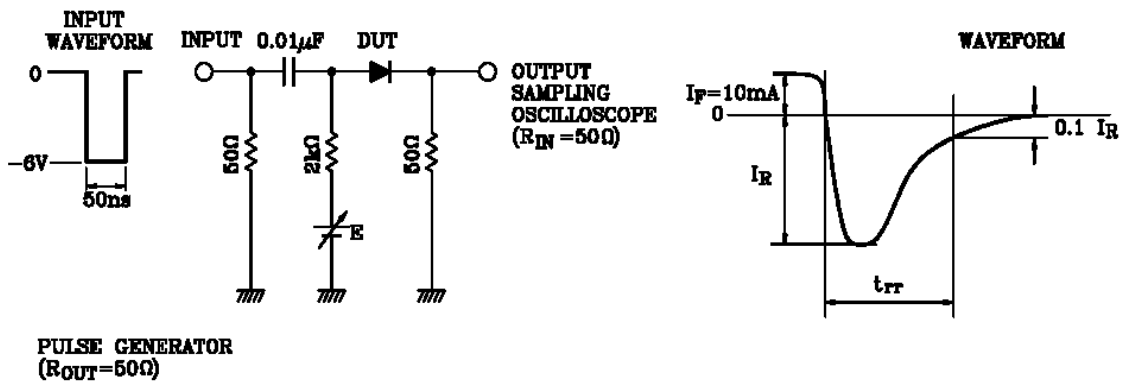


Fig. 1. REVERSE RECOVERY TIME( $t_{rr}$ ) TEST CIRCUIT



**SEMTECH ELECTRONICS LTD.**

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