



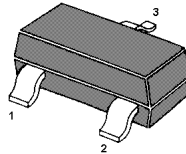
SEMICONDUCTOR

1SS184

SMALL SIGNAL SWITCHING DIODE

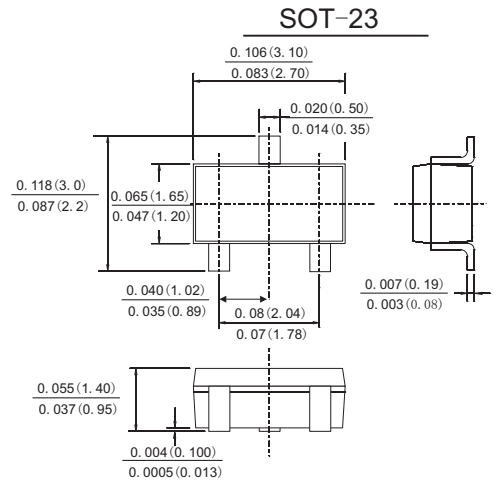
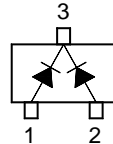
## FEATURES

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



## MECHANICAL DATA

- Case: SOT-23 plastic case



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

	Symbols	Value	Units
Maximum Peak Reverse Voltage	$V_{RM}$	85	V
Reverse Voltage	$V_R$	80	V
Average Forward Current	$I_o$	100	mA
Maximum Peak Forward Current	$I_{FM}$	300	mA
Peak Forward Surge Current(10ms)	$I_{FSM}$	2	A
Power dissipation	$P_{tot}$	150	mW
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{STG}$	-55 to +150	°C

## ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

	Symbol	Min.	Typ.	Max.	Units
Forward voltage at $I_F=100mA$	$V_F$			1.2	V
Leakage current at $V_R=30V$	$I_R$			0.1	$\mu A$
Leakage current at $V_R=80V$	$I_R$			0.5	$\mu A$
Junction capacitance at $V_R=0V$ $f=1MHz$	$C_J$			3	pF
Reverse recovery time $I_F=10mA$	$t_{rr}$			4	ns

# RATINGS AND CHARACTERISTIC CURVES 1SS184

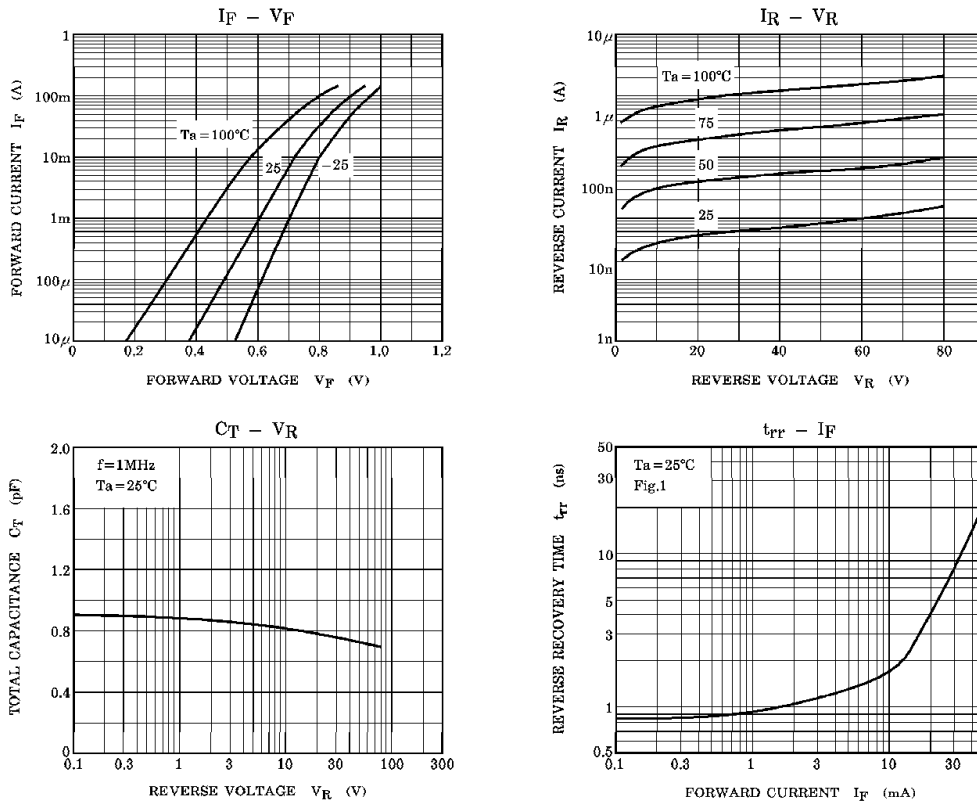
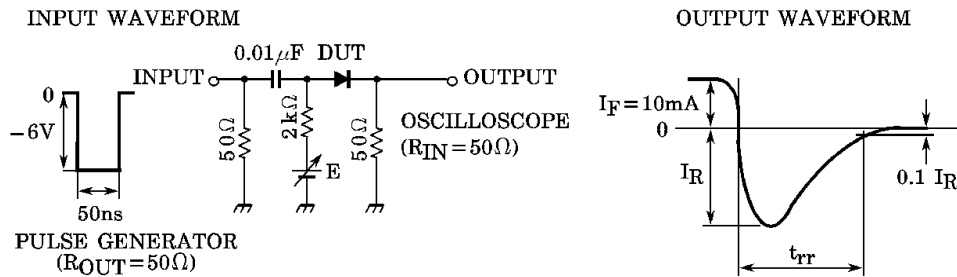


Fig.1 Reverse recovery time ( $t_{rr}$ ) test circuit



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