

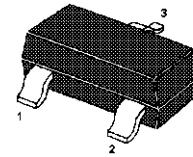
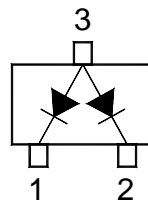
1SS181

SILICON EPITAXIAL PLANAR DIODE

SOT-23

Features

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



Marking Code: A3
SOT-23 Plastic Package

Applications

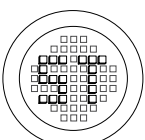
Ultra high speed switching application

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	125	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +125	$^\circ\text{C}$

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

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	$I_F = 1\text{mA}$	V_F	-	0.61	-	V
	$I_F = 10\text{mA}$	V_F	-	0.74	-	V
	$I_F = 100\text{mA}$	V_F	-	0.92	1.2	V
Reverse Current	$V_R = 30\text{V}$	I_R	-	-	0.1	μA
	$V_R = 80\text{V}$	I_R	-	-	0.5	μA
Total Capacitance	$V_R = 0, f = 1\text{MHz}$	C_T	-	2.2	4	pF
Reverse Recovery Time	$I_F = 10\text{mA}$	t_{rr}	-	1.6	4	ns



®

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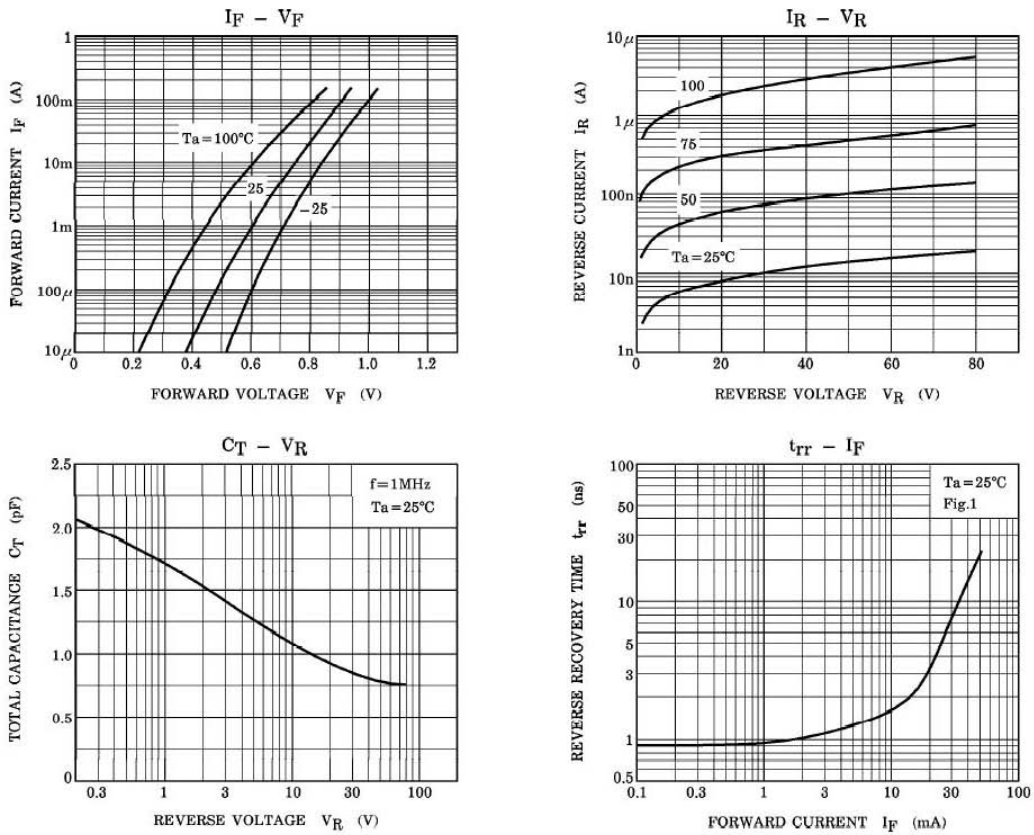
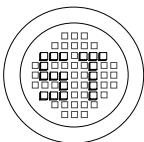
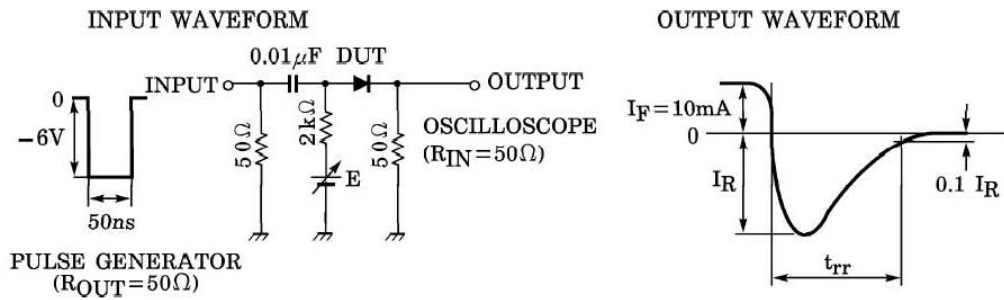


Fig.1 Reverse recovery time (t_{rr}) test circuit



SEMTECH ELECTRONICS LTD.

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