

Surface mount switching diode

1SS226

FEATURES

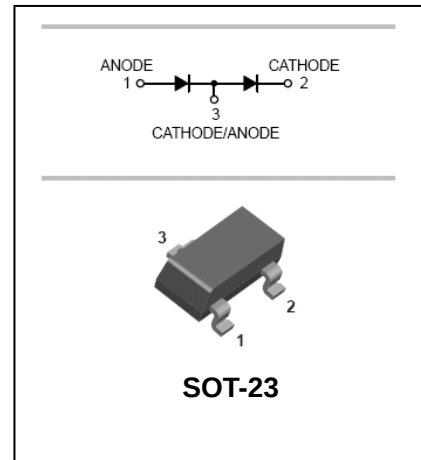


Lead-free

- Fast switching.
- Power dissipation. $P_D: 150\text{mW}(T_{\text{amb}}=25^\circ\text{C})$

APPLICATIONS

- High speed switching application.



ORDERING INFORMATION

Type No.	Marking	Package Code
1SS226	C3	SOT-23

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Forward Current(max)	I_{FM}	300	mA
Forward Output current	I_o	100	mA
Peak forward surge current @=1.0 μs @=1.0s	I_{FSM}	2	A
Power Dissipation	P_d	150	mW
Operating Junction Temperature Range	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80		V	$I_R=100\mu\text{A}$
Forward Voltage	V_F		1.2	V	$I_F=100\text{mA}$
Reverse Leakage Current	I_R		0.5	μA	$V_R=80\text{V}$
Diode Capacitance	C_D		3.0	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	t_{rr}		4.0	ns	$I_F=I_R=10\text{mA}, t_{rr}=0.1 \cdot I_R$

Surface mount switching diode

1SS226

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

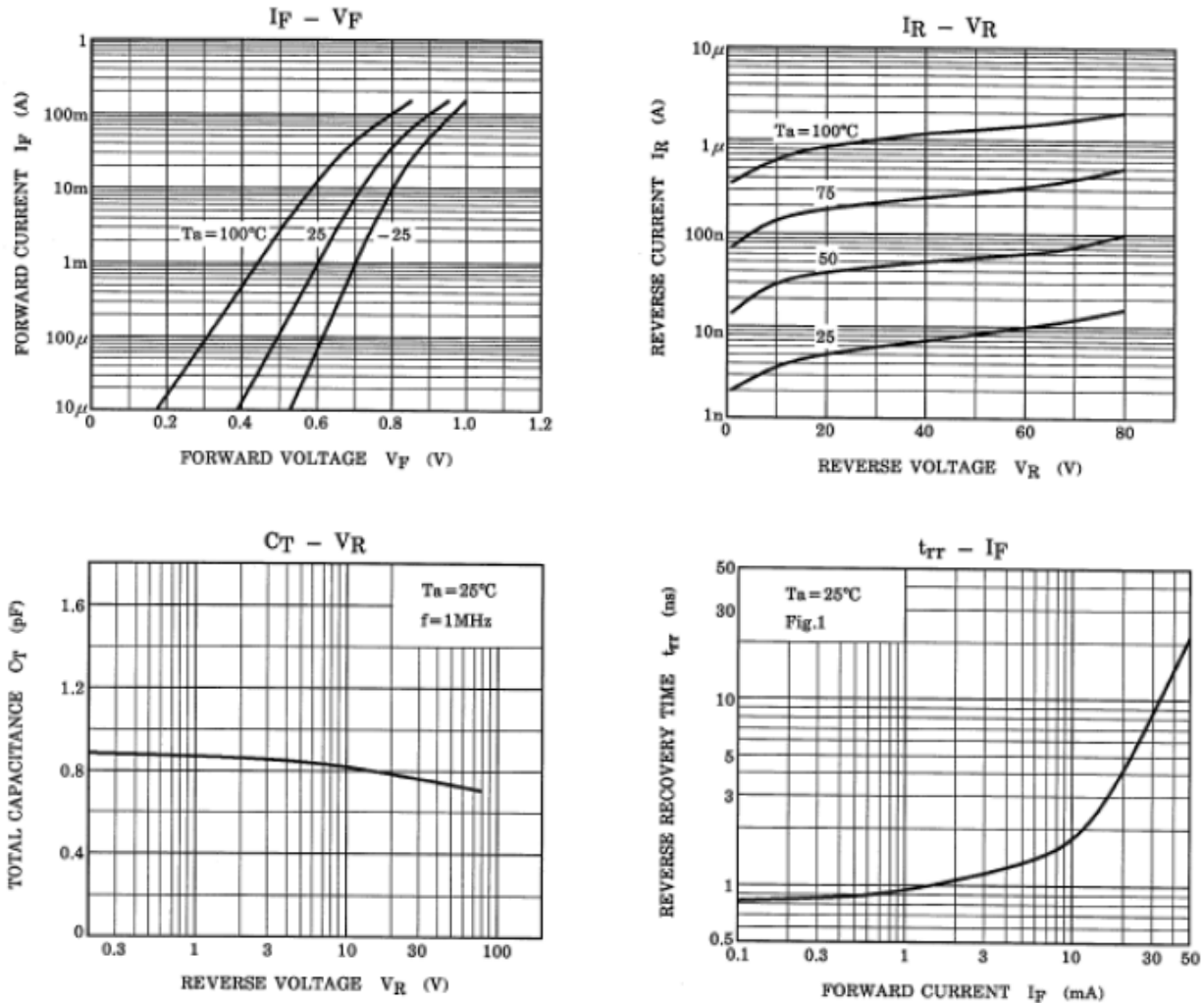
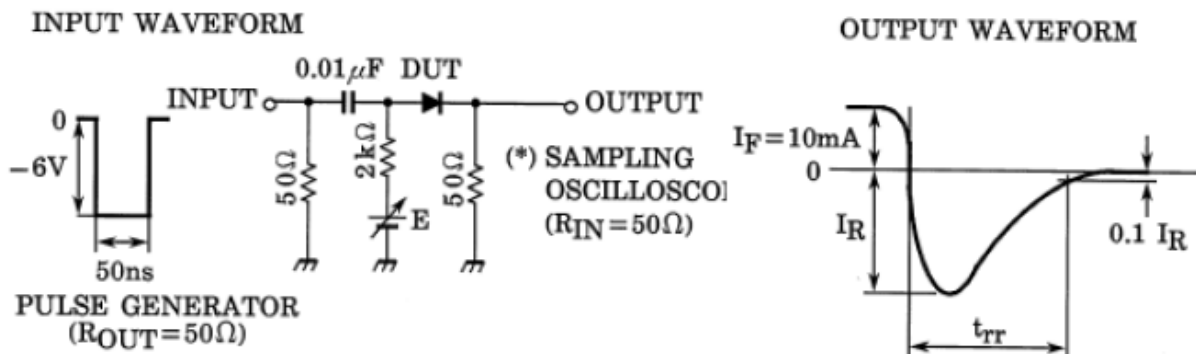


Fig.1 Reverse recovery time (t_{rr}) test circuit



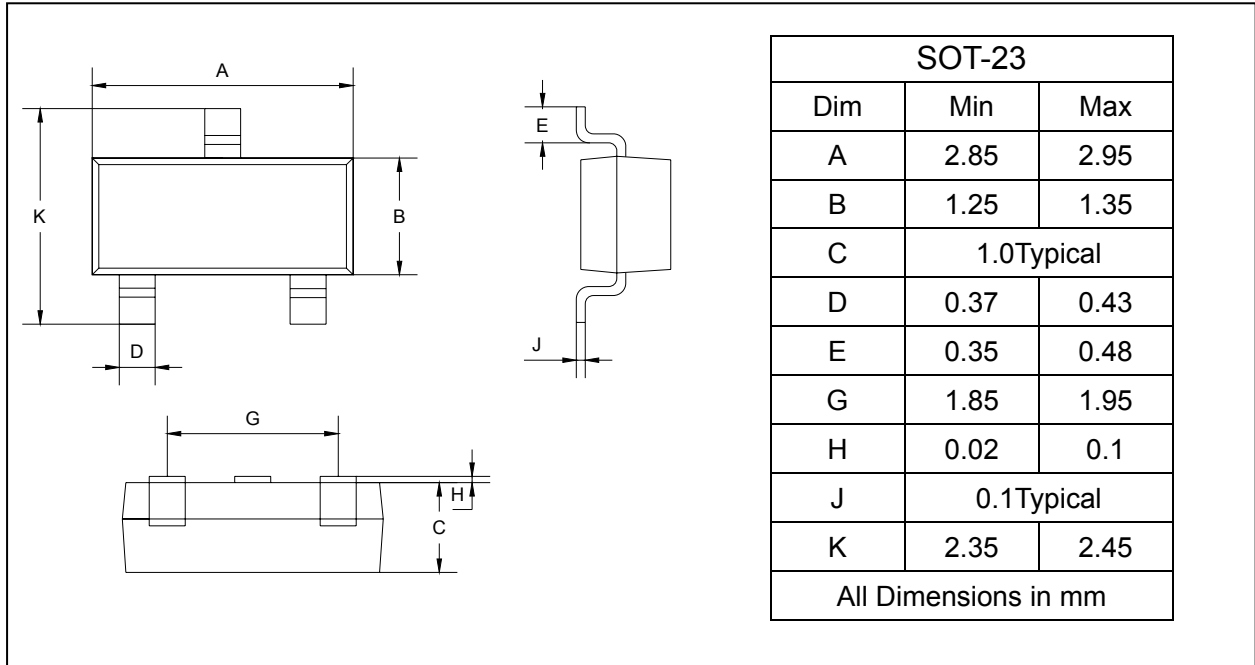
Surface mount switching diode

1SS226

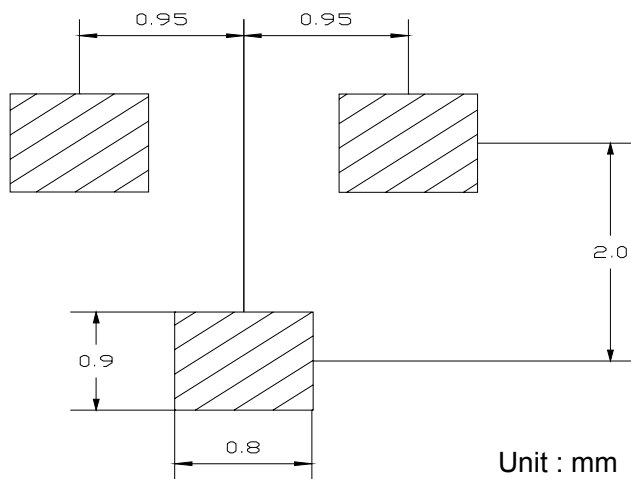
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
1SS196	SOT-23	3000/Tape&Reel