

Surface mount switching diode

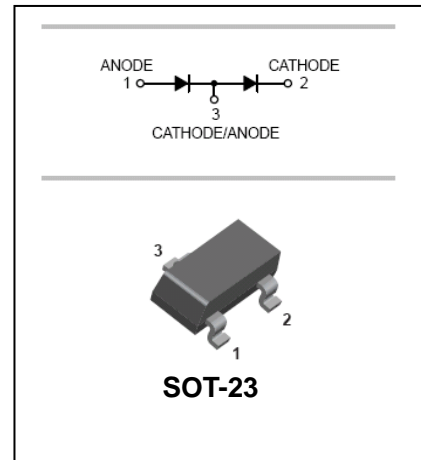
1SS226

FEATURES

- Fast switching.
- Power dissipation. $P_D: 150\text{mW}(T_{amb}=25^\circ\text{C})$
- Fast reverse recovery time: $t_{rr}=1.6\text{ns}(\text{typ.})$



Lead-free



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 @ $t=10\text{ms}$	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	$^\circ\text{C}$

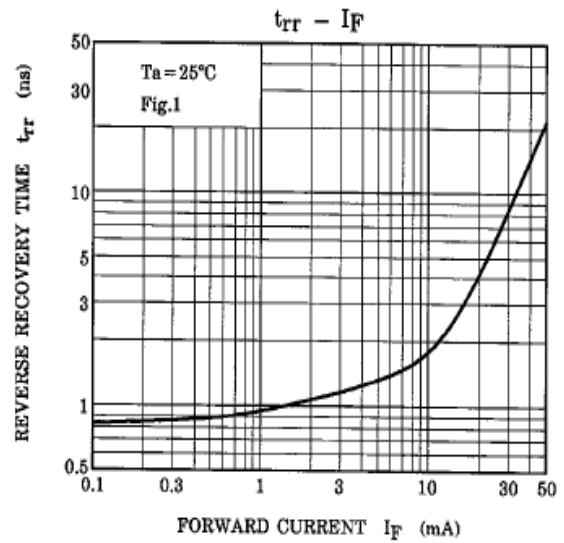
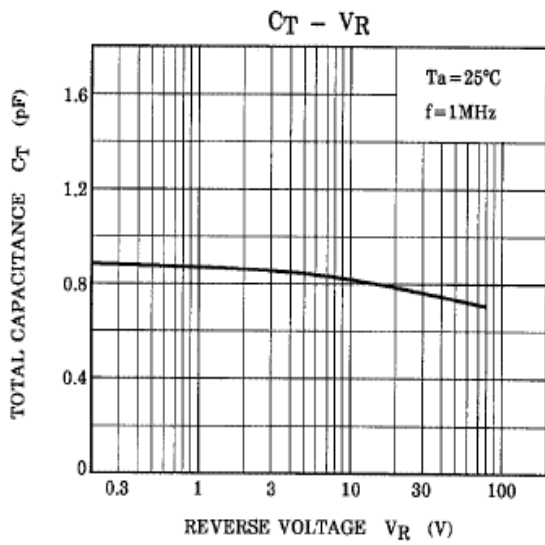
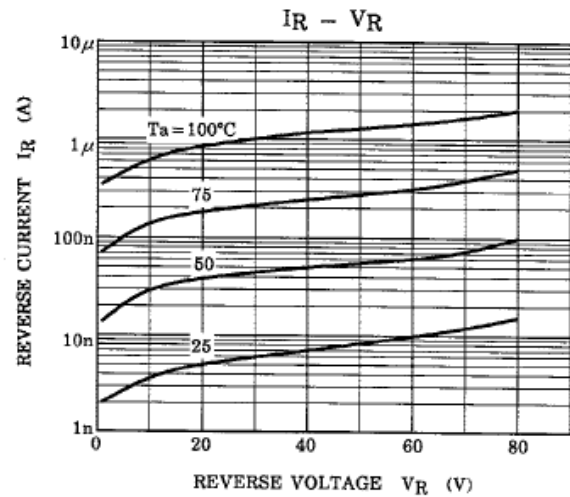
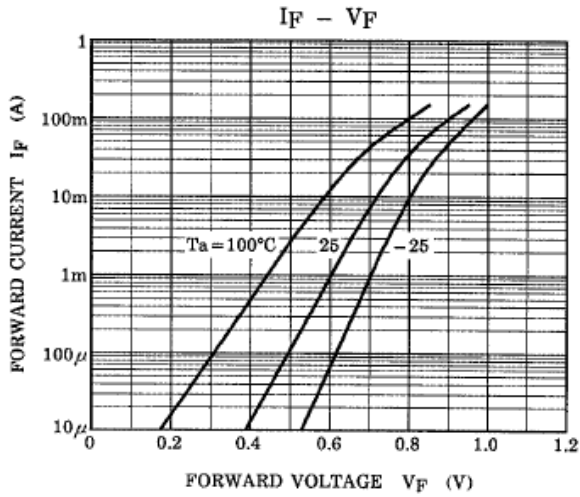
ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	TYP	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80			V	$I_R=100\mu\text{A}$
Forward Voltage	V_F		0.60 0.72 0.90	1.2	V	$I_F=100\text{mA}$
Reverse Leakage Current	I_R			0.1 0.5	μA	$V_R=30\text{V}$ $V_R=80\text{V}$
Diode Capacitance	C_D		0.9	3.0	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	t_{rr}		1.6	4.0	ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1*I_R$

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



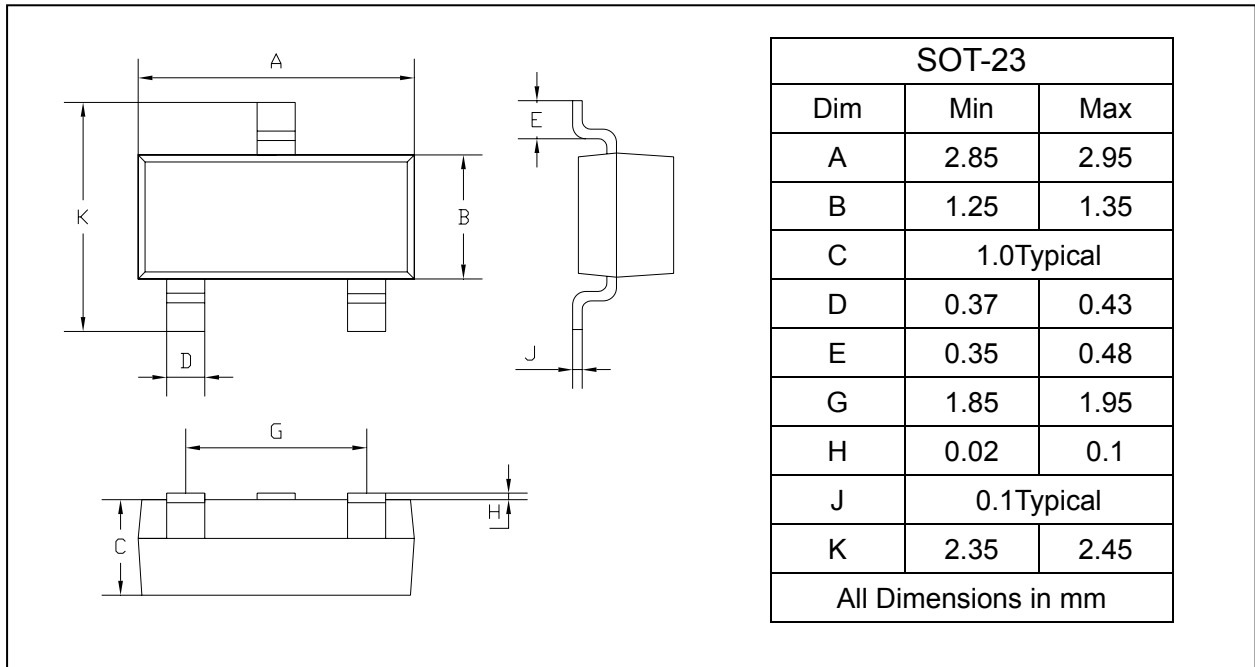
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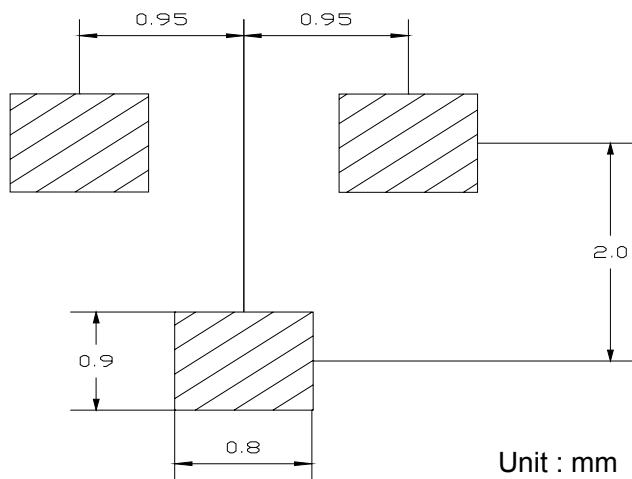
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
1SS226	SOT-23	3000/Tape&Reel

www.s-manuals.com