

Surface mount switching diode

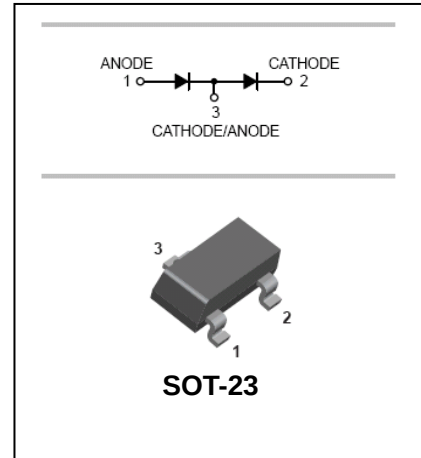
1SS226

FEATURES

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

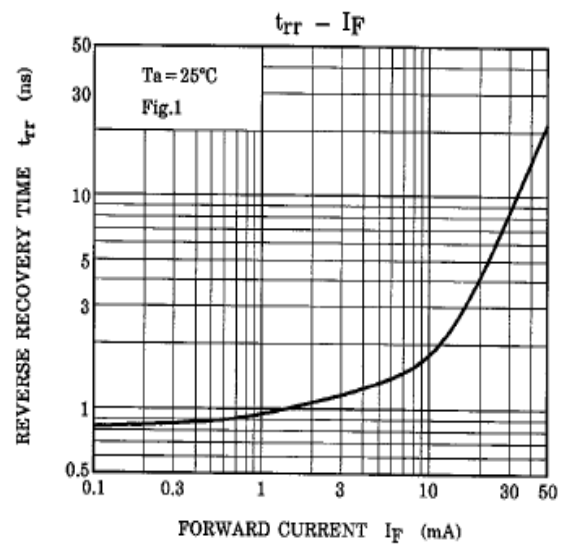
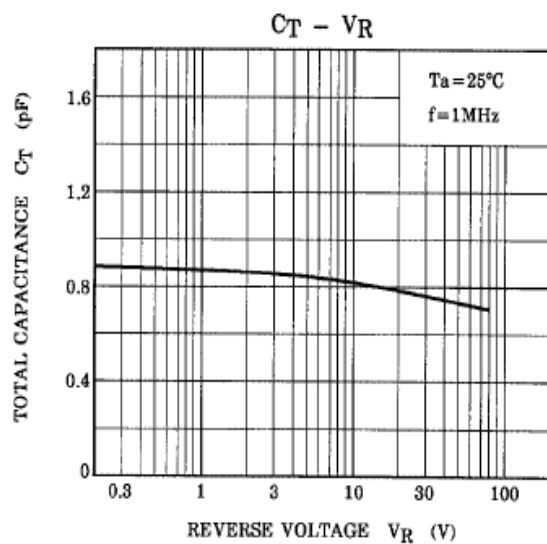
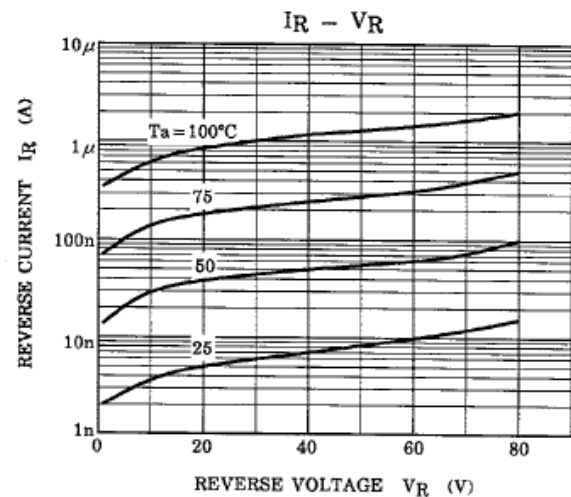
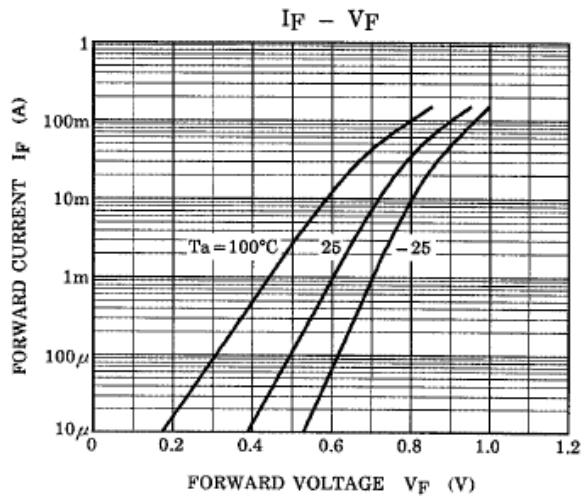
ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

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

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



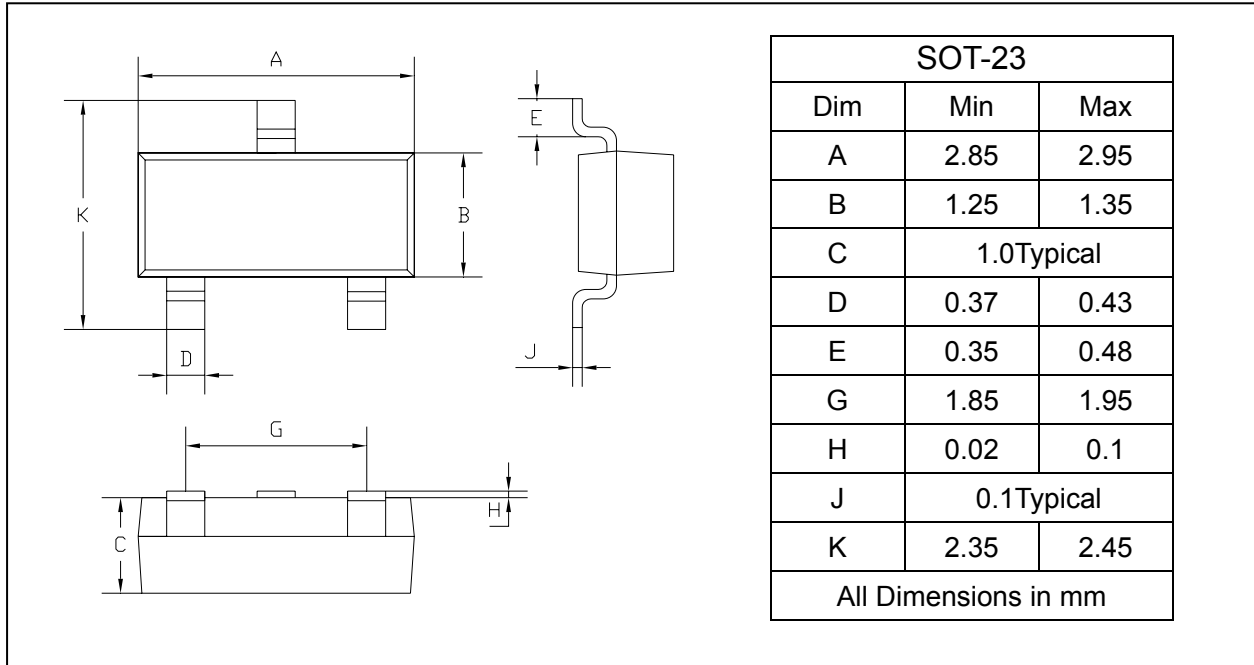
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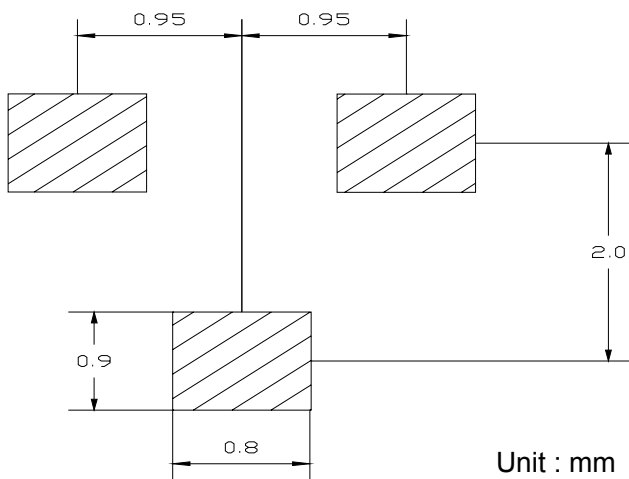
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

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