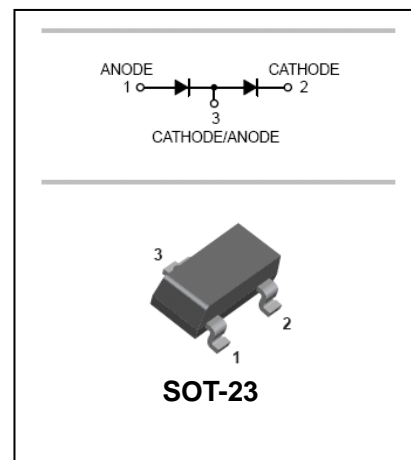


Surface mount switching diode

FEATURES

- Low forward voltage: $V_{F(3)}=0.9V(\text{typ})$.
- Small total capacitance: $C_T=0.9pF(\text{typ})$.
- Fast reverse recovery time: $t_{rr}=1.6ns(\text{typ.})$



APPLICATIONS

- High speed switching application.

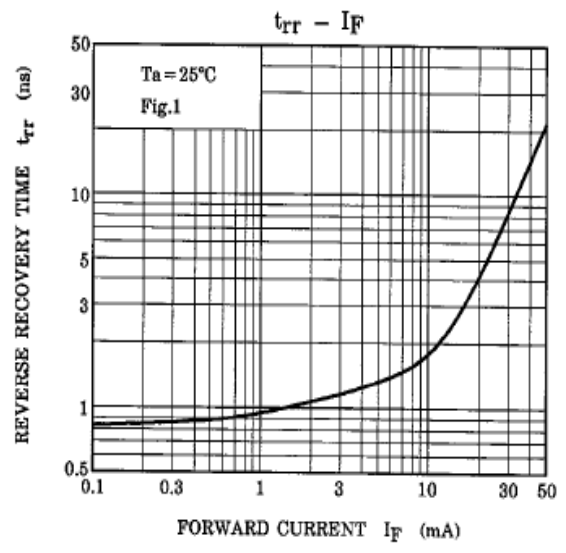
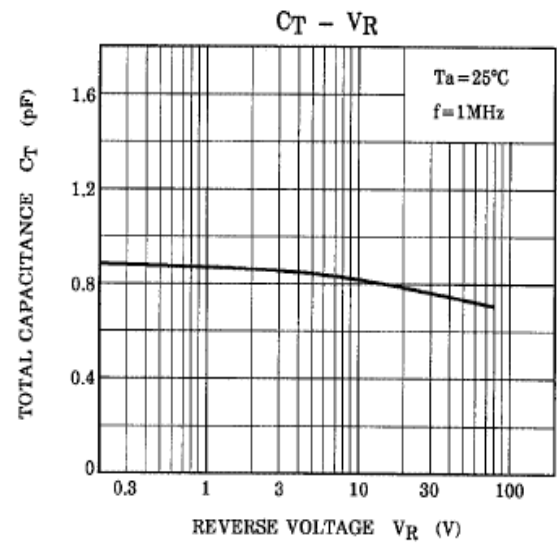
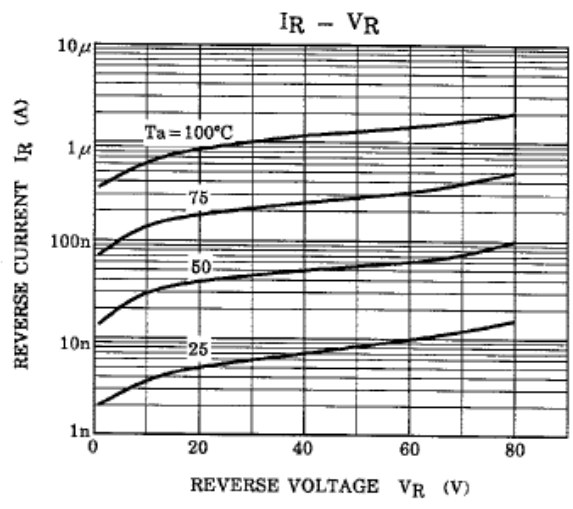
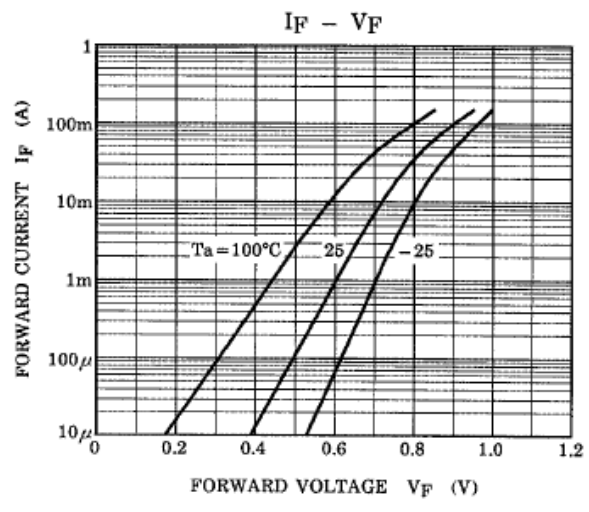
MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

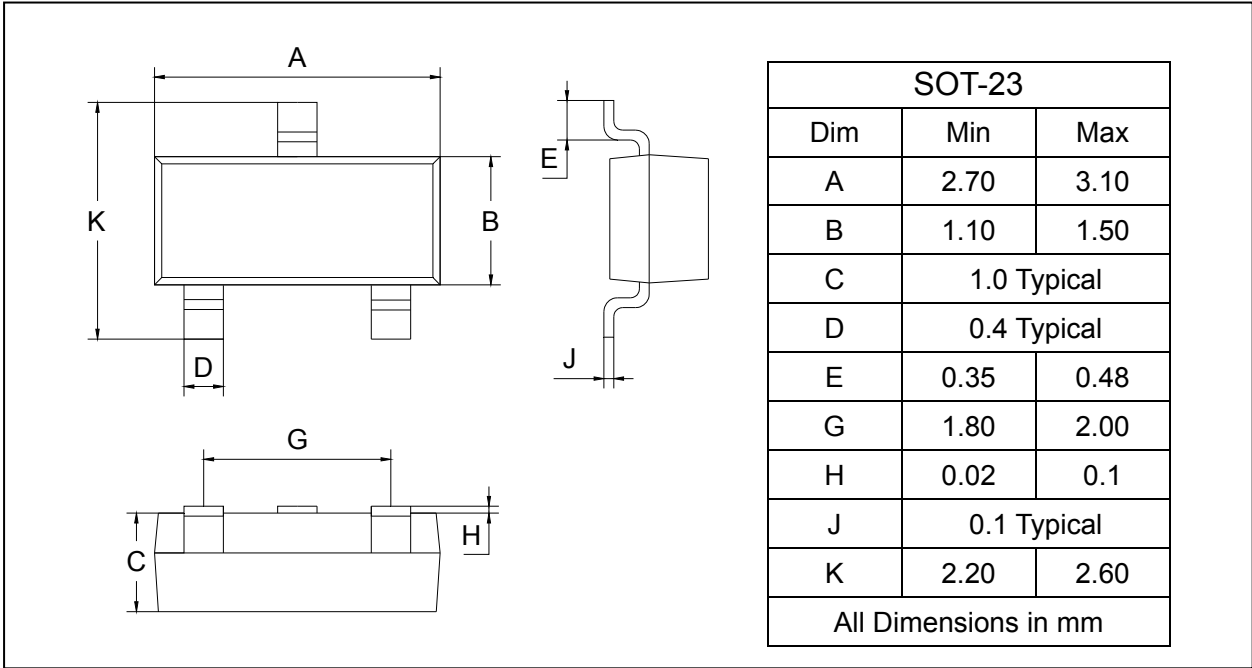
Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Forward Output current	I_o	100	mA
Peak forward surge current @ $t=10ms$	I_{FSM}	2	A
Power Dissipation	P_d	150	mW
Operating Junction Temperature Range	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

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

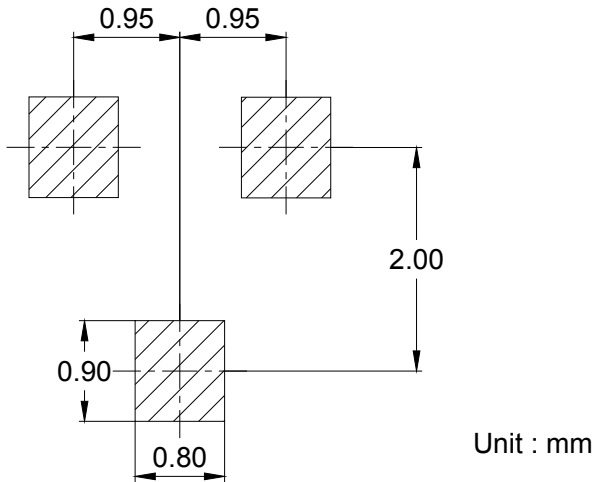
Characteristic	Symbol	Min	TYP	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	$I_R=100\mu\text{A}$
Forward Voltage	V_F	-	0.60	-	V	$I_F=100\text{mA}$
		-	0.72	-		
		-	0.90	1.2		
Reverse Leakage Current	I_R	-	-	0.1	μA	$V_R=30\text{V}$
		-	-	0.5		$V_R=80\text{V}$
Diode Capacitance	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	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R$

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





SOLDERING FOOTPRINT



PACKAGE INFORMATION

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