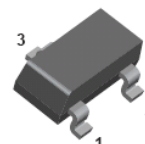
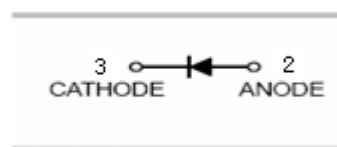




FEATURES

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


SOT-23

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
1SS196	G3	SOT-23

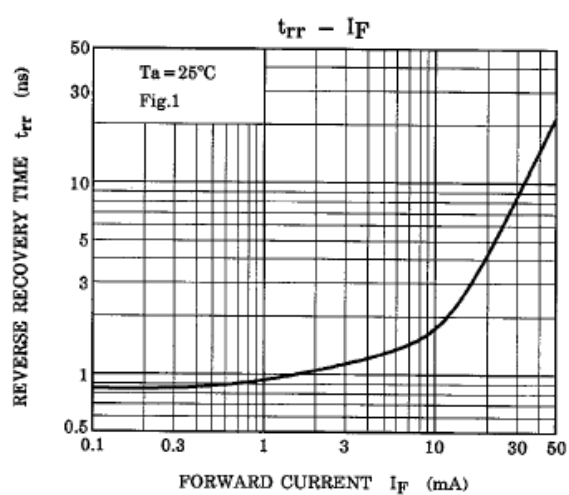
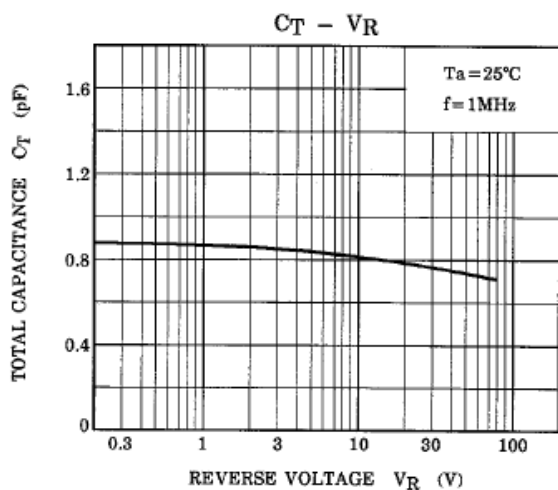
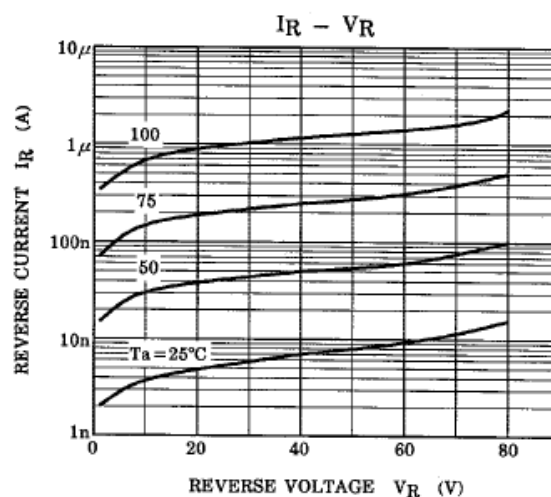
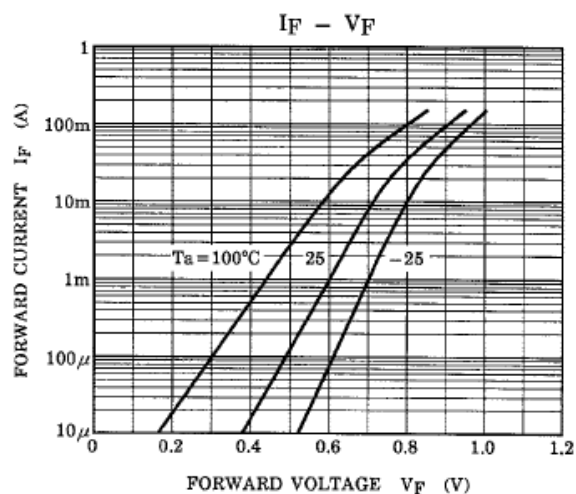
MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Forward Output current	I_o	100	mA
Surge current (10ms)	I_{FSM}	2	A
Power Dissipation	P_d	350	mW
Operating Junction Temperature Range	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

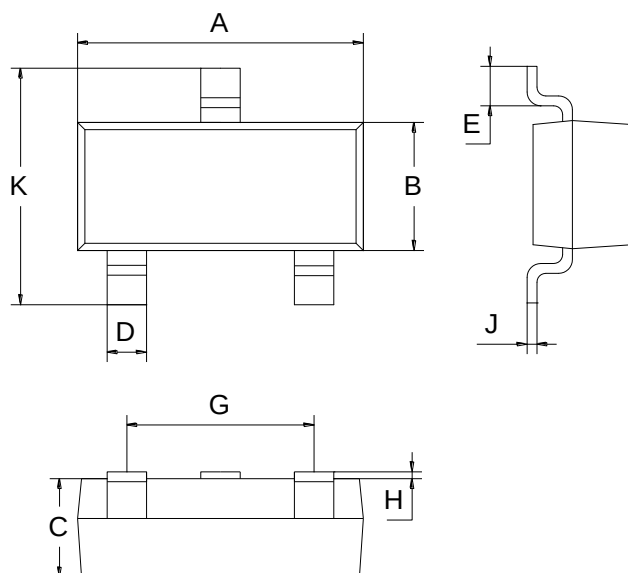
Characteristic	Symbol	Min	Typ	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	$I_R=100\mu\text{A}$
Forward Voltage	V_F	-	0.60 0.72 0.90	- - 1.2	V	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$
Reverse Leakage Current	I_R	-	-	0.1 0.5	μA	$V_R=30\text{V}$ $V_R=80\text{V}$
Junction Capacitance	C_j	-	0.9	3.0	pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	1.6	4.0	ns	$I_F=I_R=10\text{mA}, t_{rr}=0.1 \cdot I_R$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



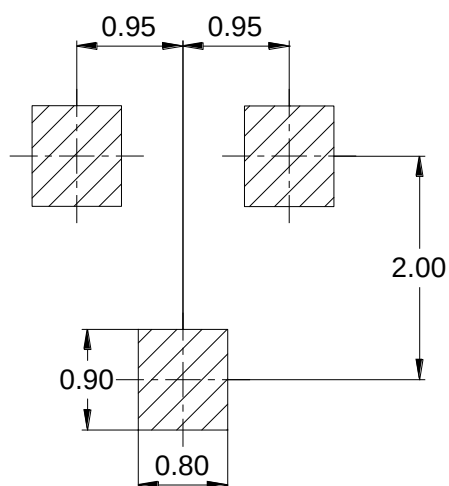
PACKAGE OUTLINE

Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

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