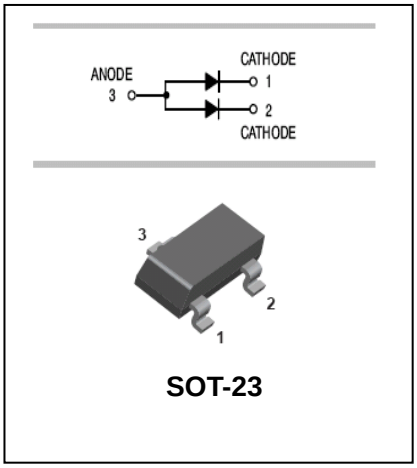
Surface mount switching diode **1SS181**

FEATURES

- Low forward voltage
  $V_{F(3)}$=0.92V(typ).
- Fast switching.
- Fast reverse recovery time:t_{rr}=1.6ns(typ)

Lead-free



SOT-23

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
1SS181	A3	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

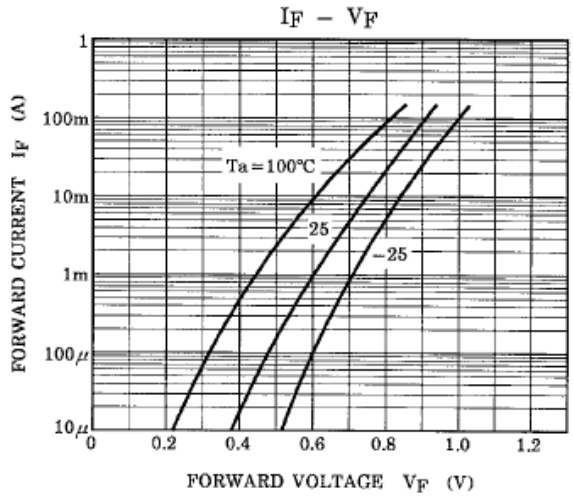
Characteristic	**Symbol**	**Limits**	**Unit**
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Forward current(max)	I_{FM}	300	mA
Surge current (10ms)	I_{FSM}	2	A
Forward Output current	I_o	100	mA
Power Dissipation	P_d	150	mW
Operating Junction Temperature Range	T_j	125	℃
Storage Temperature Range	T_{STG}	-55 to +125	℃

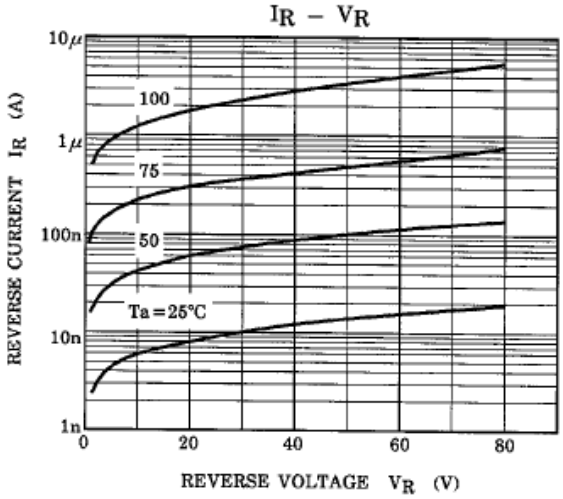
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

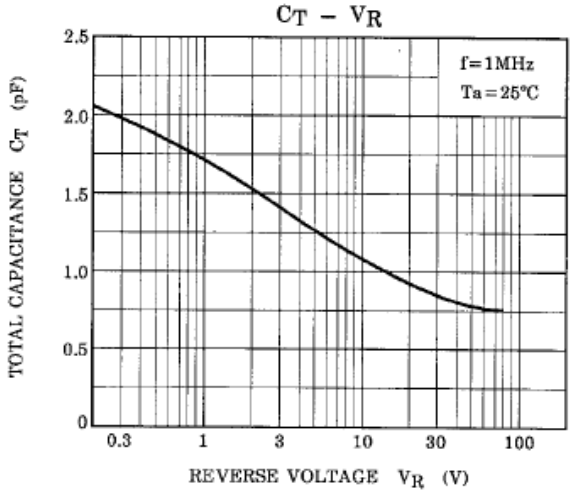
Characteristic	**Symbol**	**Min**	**Typ**	**MAX**	**UNIT**	**Test Condition**
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	I_R= 100μA
Forward Voltage	V_F	-	0.61 0.74 0.92	 1.2	V	I_F=1mA I_F=10mA I_F=100mA
Reverse Leakage Current	I_R	-		0.1 0.5	μA	V_R=30V V_R=80V
Total Capacitance	C_T	-	2.2	4.0	pF	V_R=0V,f=1.0MHz
Reverse Recovery Time	t_{rr}	-	1.6	4.0	ns	I_F=I_R=10mAI_{rr}=0.1*I_R

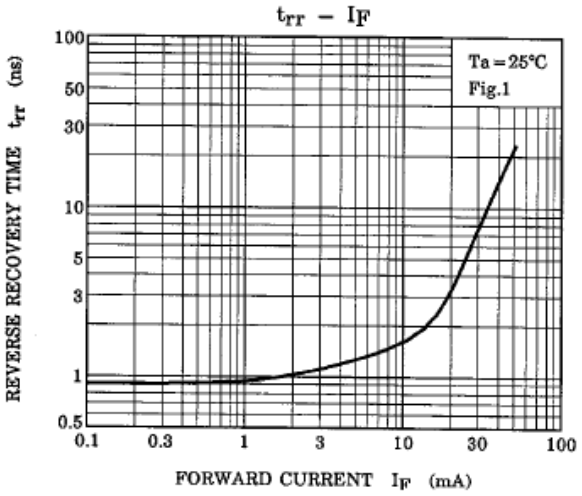
Surface mount switching diode **1SS181**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified





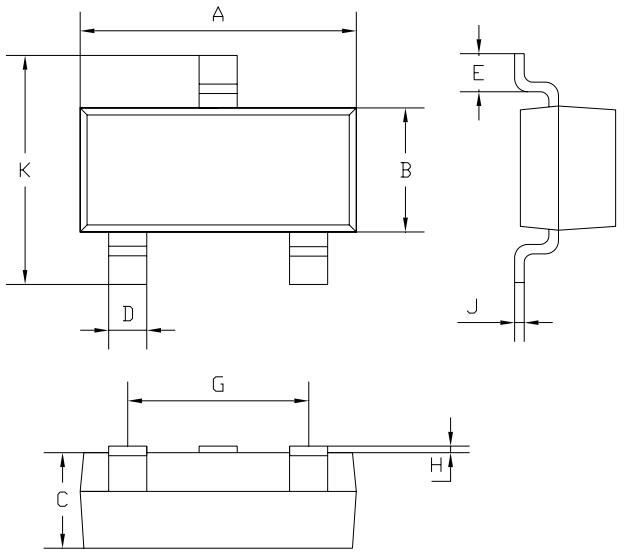




Surface mount switching diode **1SS181**

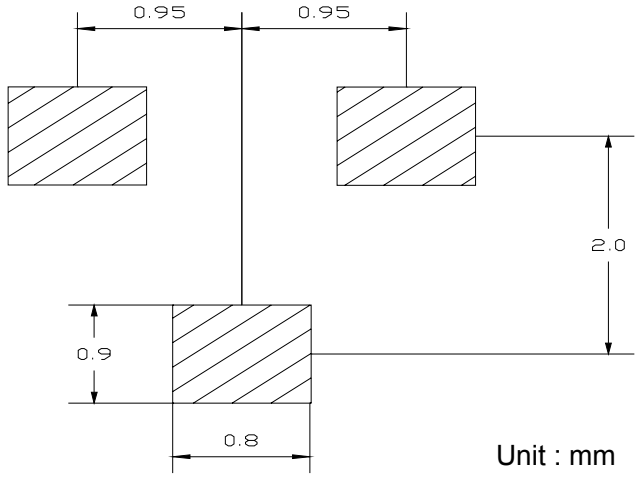
PACKAGE OUTLINE

Plastic surface mounted package SOT-23



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1.0Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1Typical	
K	2.35	2.45
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
1SS181	SOT-23	3000/Tape&Reel