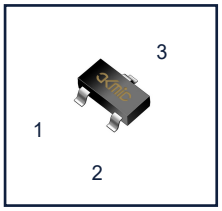
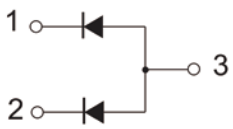
Features

- Low forward voltage
- Fast reverse recovery time



SOT23



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V_{RM}	Non-Repetitive Peak Reverse Voltage	85	V
V_R	DC Blocking Voltage	80	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t= 8.3ms	2.0	A
P_d	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	833	℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

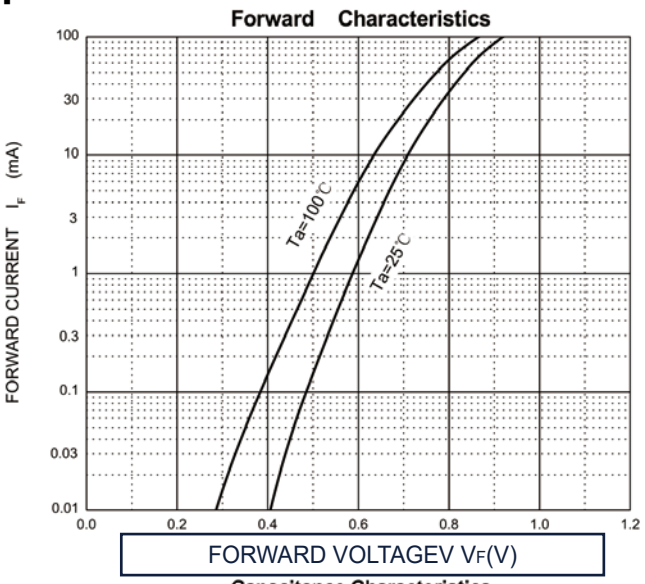
Electrical Characteristics (T_A=25℃ unless otherwise specified)

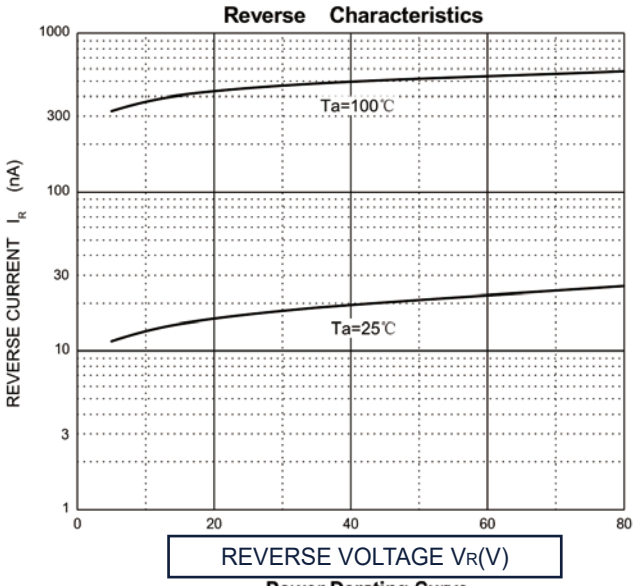
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I_R=100μA	80			V
V_{F1}	Forward voltage	I_F=1mA		0.61		V
V_{F2}		I_F=10mA		0.74		V
V_{F3}		I_F=100mA		0.92	1.2	V
I_{R1}	Forward voltage	V_R=30V			0.1	μA
I_{R2}		V_R=80V			0.5	μA
C_T	Capacitance between terminals	V_R=0V, f=1MHz		2.2	4.0	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA,I_{rr}=0.1XI_R		1.6	4.0	nS

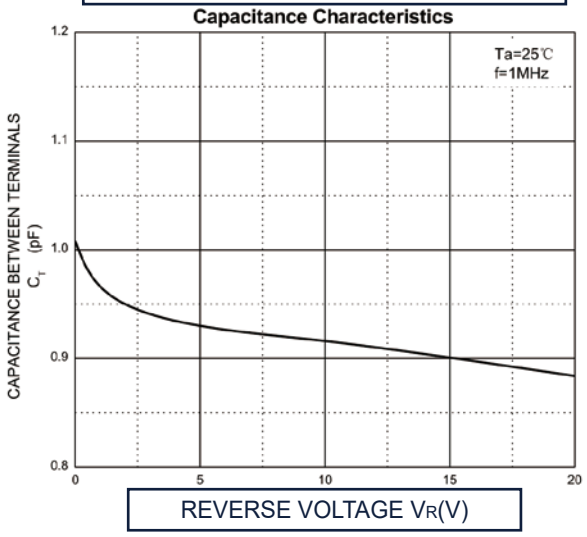
Ordering information

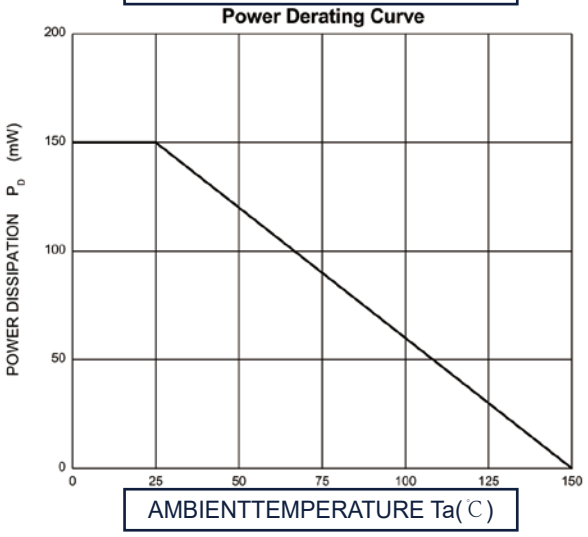
Product ID	Marking	Naming rule	Pack	Qty(PCS)
1SS181	A3	1SS181 (产品名称 product name)	SOT23	3000

Typical Characteristics

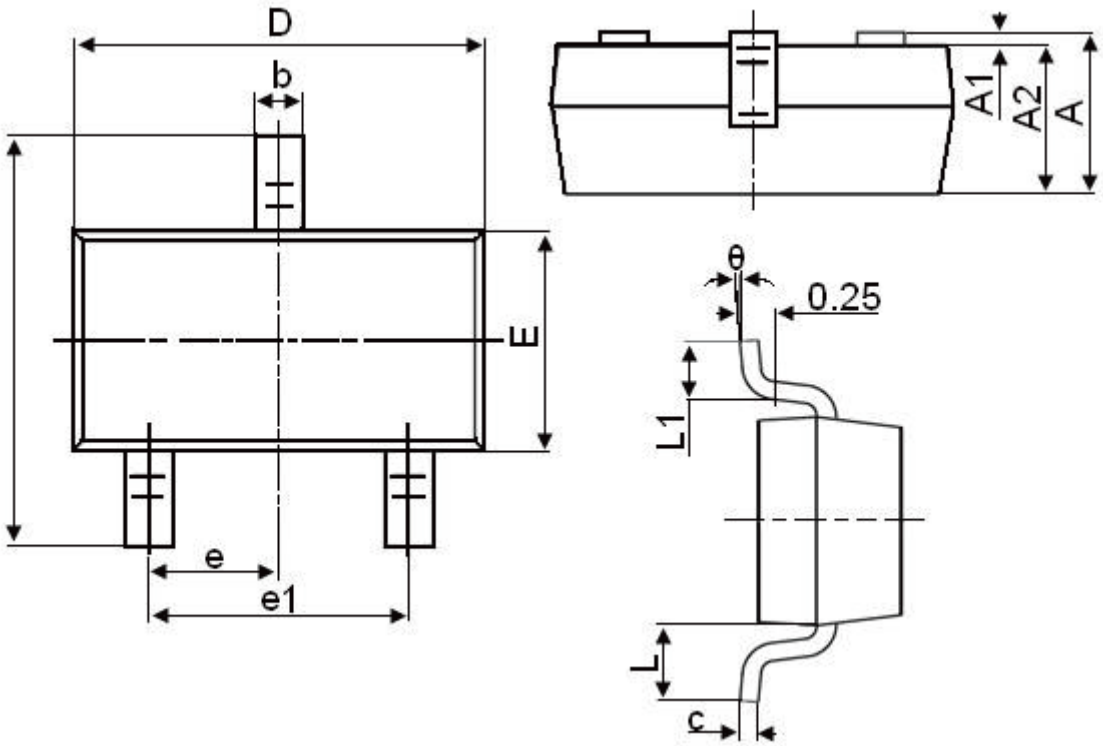








SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°