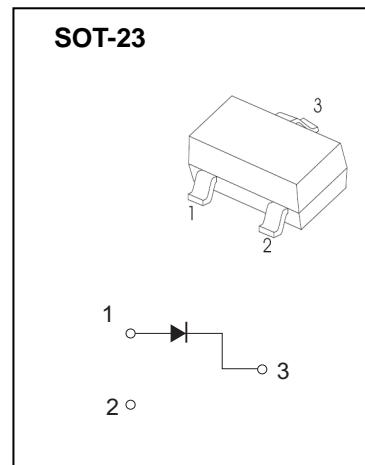
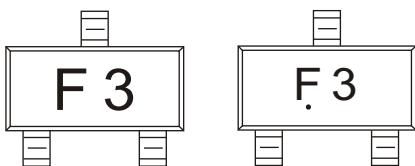


**Switching Diode****FEATURES**

- Low forward voltage
- Fast reverse recovery time

MARKING: F3

Solid dot = Green molding compound device, if none, the normal device.

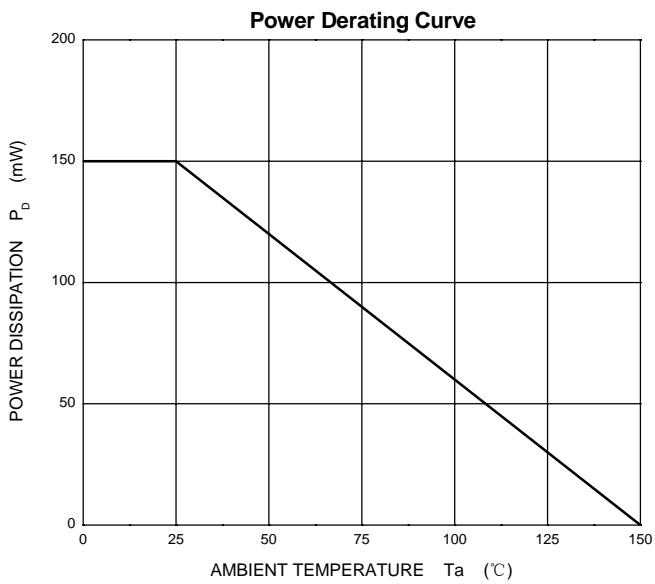
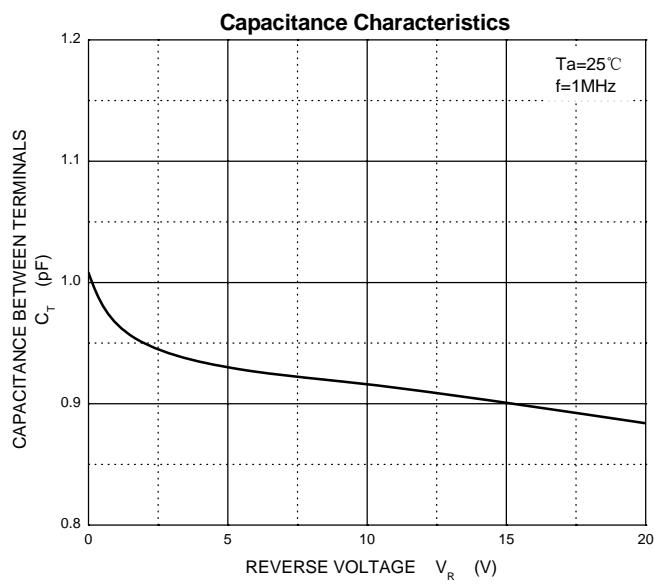
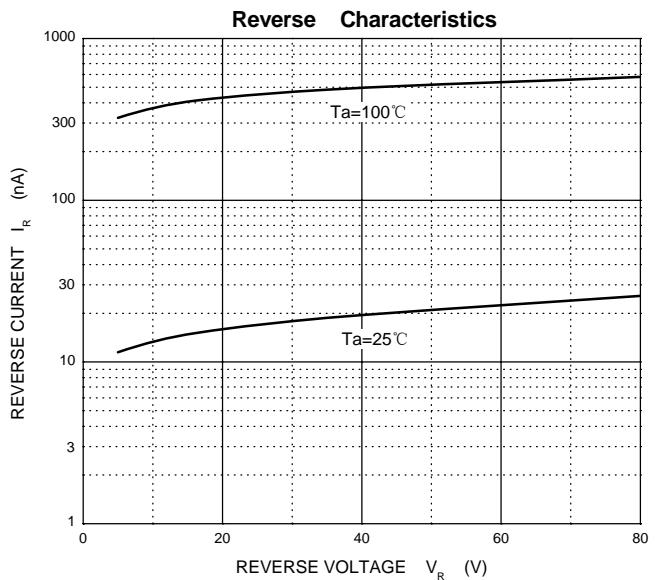
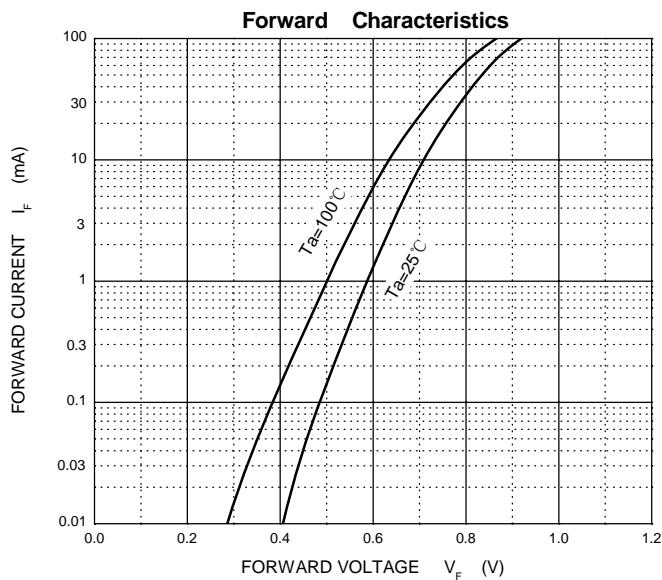
Maximum Ratings @Ta=25°C

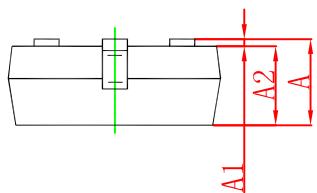
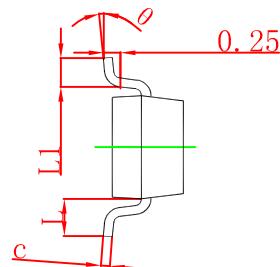
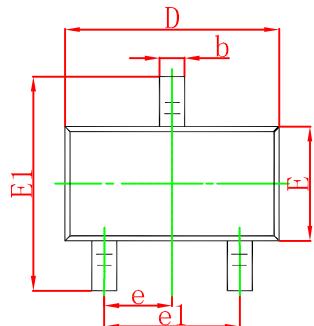
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	85	V
DC Blocking Voltage	V _R	80	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _D	150	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	833	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics @Ta=25°C

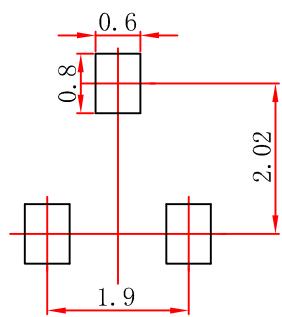
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	80			V	I _R =100μA
Forward voltage	V _{F1}		0.60		V	I _F =1mA
	V _{F2}		0.72		V	I _F =10mA
	V _{F3}		0.90	1.2	V	I _F =100mA
Reverse current	I _{R1}			0.1	uA	V _R =30V
	I _{R2}			0.5	uA	V _R =80V
Capacitance between terminals	C _T		0.9	3.0	pF	V _R =0,f=1MHz
Reverse recovery time	t _{rr}			1.6	4.0	ns
						I _F =I _R =10mA, I _{rr} =0.1×I _R

Typical Characteristics



SOT-23 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.