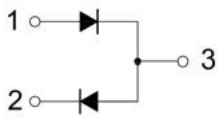
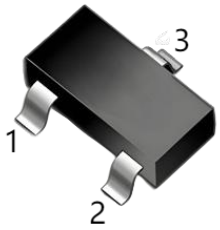
Fast Switching Diode

Parameter	Value	Unit
V_R	200	V
I_O	200	mA





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Features

- Fast Switching Speed
- Low Leakage
- High Conductance

Applications

- AC-DC power supplies
- smartphones, tablets, and wearable devices

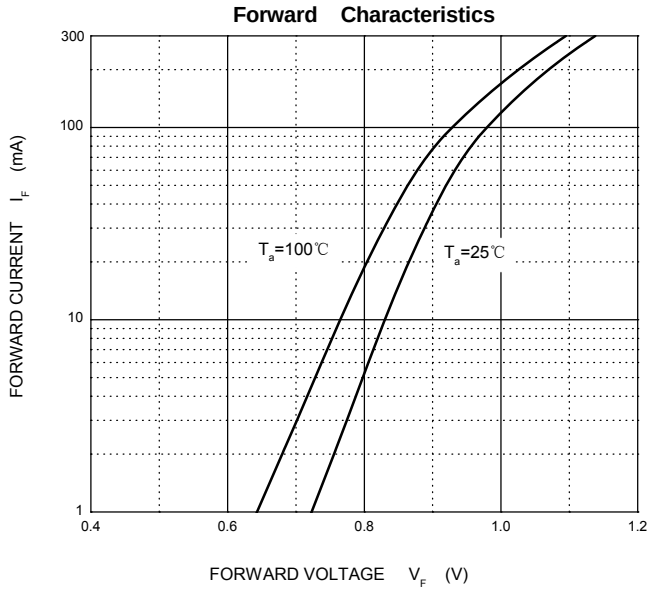
Absolute Maximum Ratings(Ta=25℃unless otherwise noted)

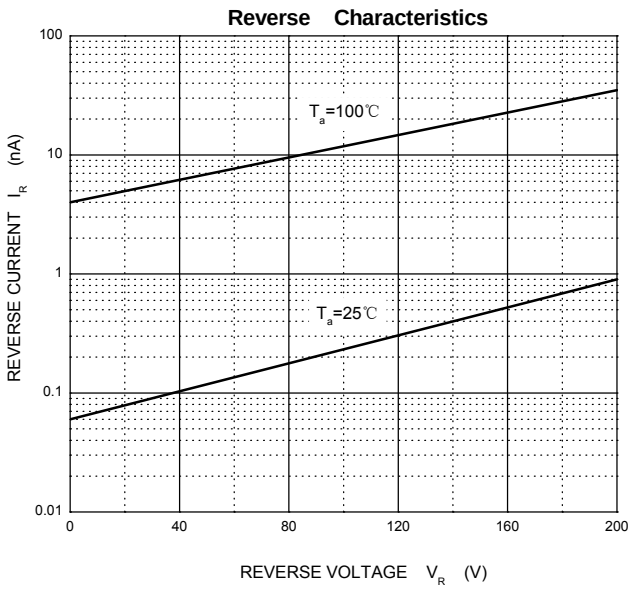
Parameter	Symbol	Value	Unit
DC Blocking Voltage	V_R	200	V
Continuous Forward Current	I_O	200	mA
Peak Forward Current	I_{FM}	700	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	℃/W
Operation Junction and Storage Temperature Range	T_J,T_{STG}	-55~+150	℃

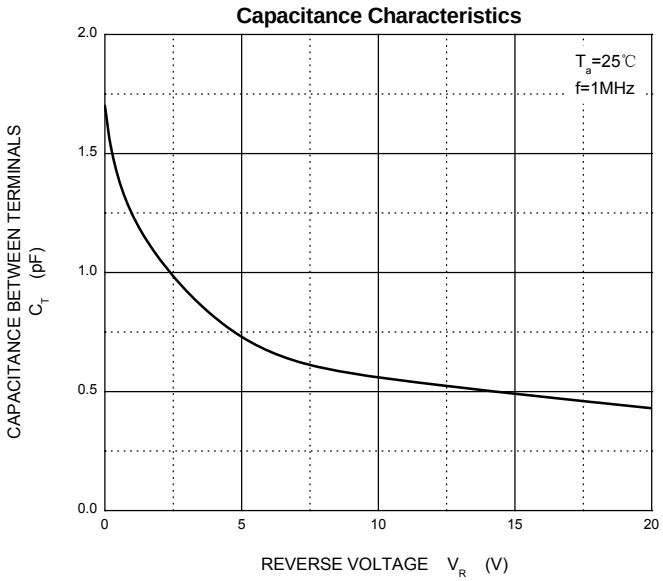
Electrical Characteristics(Ta=25℃unless otherwise noted)

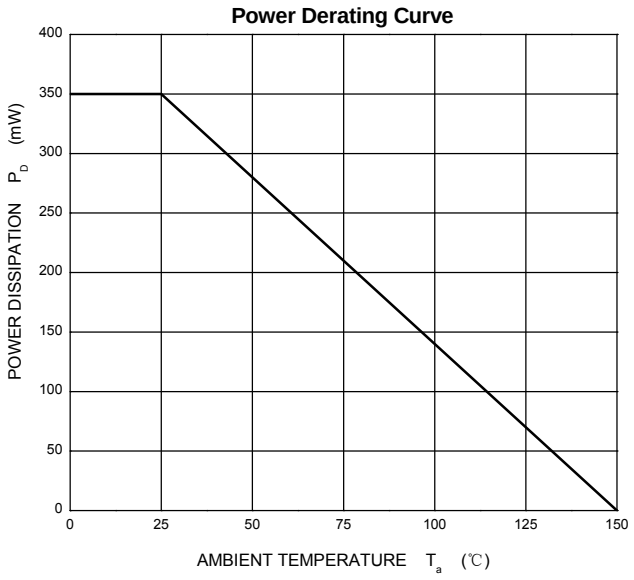
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=5μA	200			V
Reverse current	I_R	V_R=180V			10	nA
Forward voltage	V_F	I_F=1mA			0.75	V
		I_F=10mA			0.85	
		I_F=50mA			0.95	
		I_F=100mA			1.1	
		I_F=200mA			1.3	
		I_F=300mA			1.5	
Total capacitance	C_{tot}	V_R=0V,f=1MHz			4	pF

Typical Characteristics



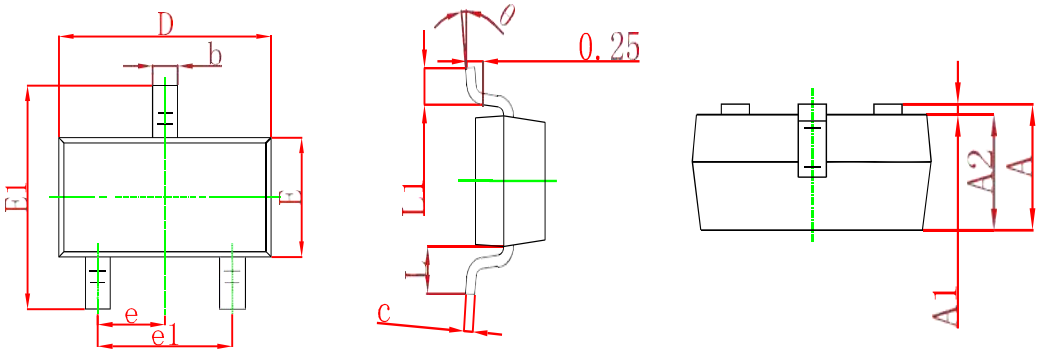






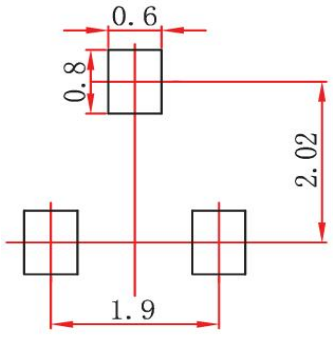
Package Outlines (Units: mm)

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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: ±0.05mm
3. The pad layout is for reference purposes only

***Important Usage Information and Disclaimer**

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