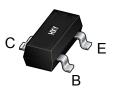


FEATURES

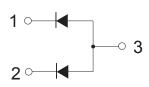
- Average Rectified Output Current:I_O=100 mA
- Power Dissipation of 150mw



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1SS181	SOT-23	А3	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

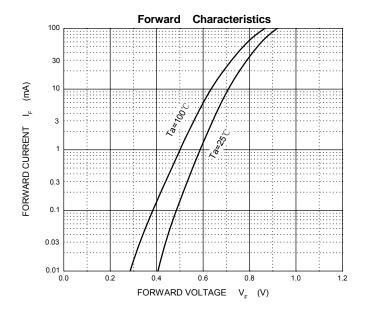
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_{R}	80	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Ιο	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction to Ambient	$R_{ heta JA}$	833	°C/W
Junction Temperature	TJ	150	${\mathbb C}$
Storage Temperature Range	T_{STG}	-55~+150	℃

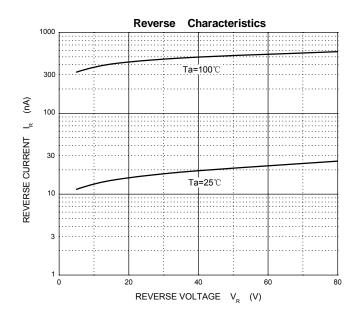
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

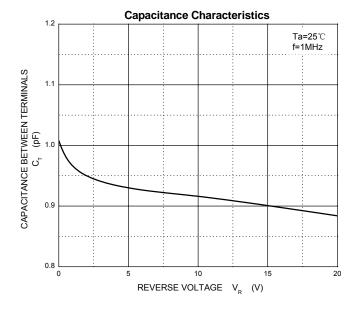
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	80			V	I _R =100μA
	V _{F1}		0.61		V	I _F =1mA
Forward voltage	V _{F2}		0.74		V	I _F =10mA
	V_{F3}		0.92	1.2	V	I _F =100mA
Reverse current	I _{R1}			0.1	uA	V _R =30V
Reverse current	I _{R2}			0.5	uA	V _R =80V
Capacitance between terminals	Ст		2.2	4.0	pF	V _R =0,f=1MHz
Reverse recovery time	t _{rr}		1.6	4.0	ns	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R$

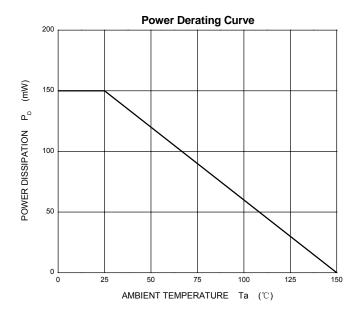


Typical Characteristics



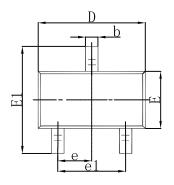


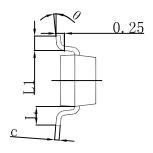


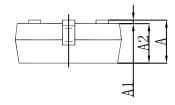




SOT-23 Package Outline Dimensions

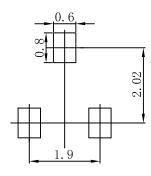






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 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.



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