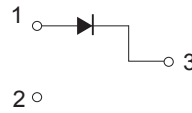
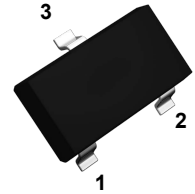


Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



Schematic Diagram



SOT-23

Absolute Maximum Ratings

(T_A=25°C unless otherwise specified)

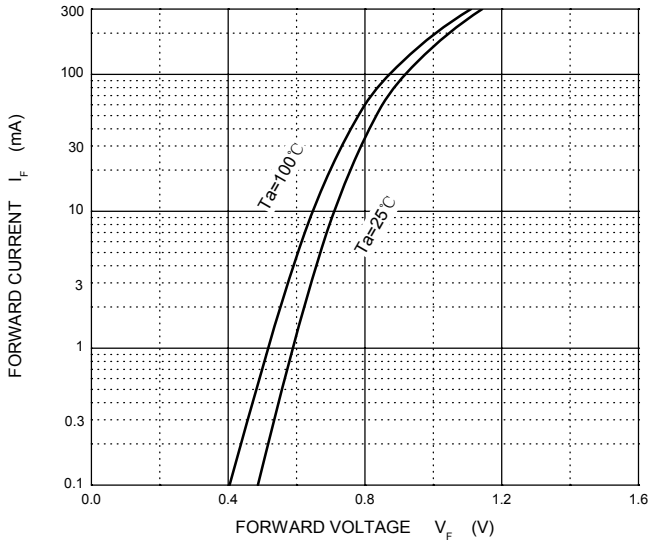
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}	100	
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Average Rectified Output Current	I _O	300	mA
Non-Repetitive Peak Forward Surge Current @8.3ms	I _{FSM}	2	A
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	R _{θJA}	357	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

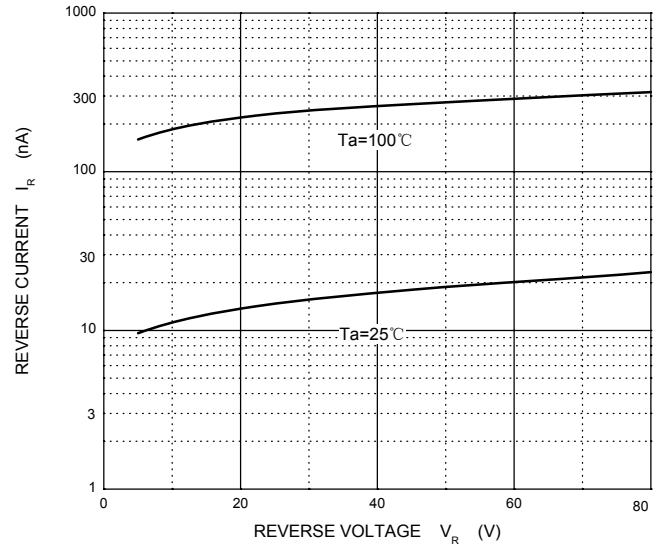
Parameter	Symbol	Min	Max	Unit	Conditions
Reverse Breakdown Voltage	V _(BR)	100		V	I _R =100μA
Forward Voltage	V _{F1}		715	mV	I _F =1mA
	V _{F2}		855	mV	I _F =10mA
	V _{F3}		1000	mV	I _F =50mA
	V _{F4}		1250	mV	I _F =150mA
Reverse Current	I _{R1}		1	uA	V _R =75V
	I _{R2}		25	nA	V _R =20V
Diode Capacitance	C _D		2	pF	V _R =0, f=1MHz
Reverse Recovery Time	t _{rr}		4	ns	I _F =I _R =10mA, I _{rr} =0.1*I _R

Typical Characteristics Curves

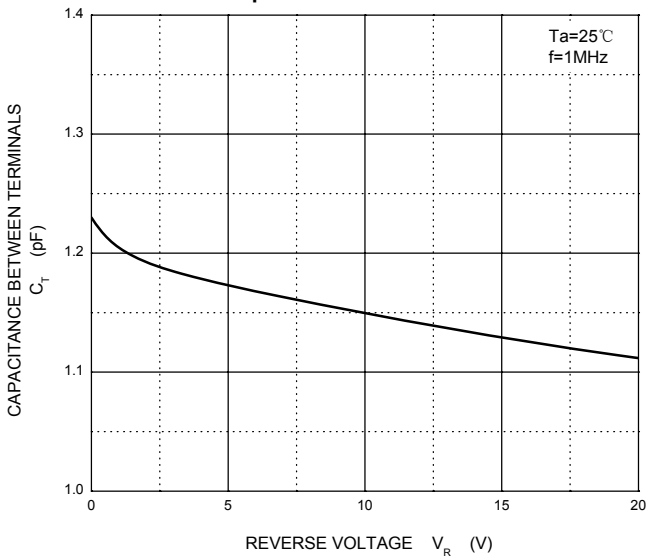
Forward Characteristics



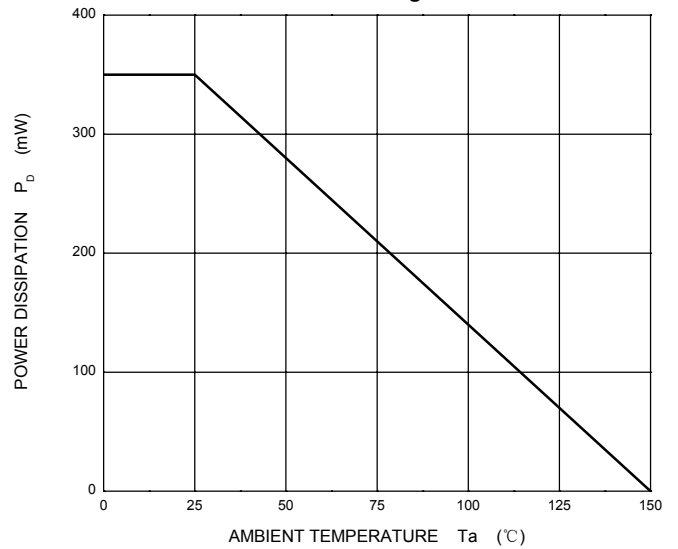
Reverse Characteristics



Capacitance Characteristics

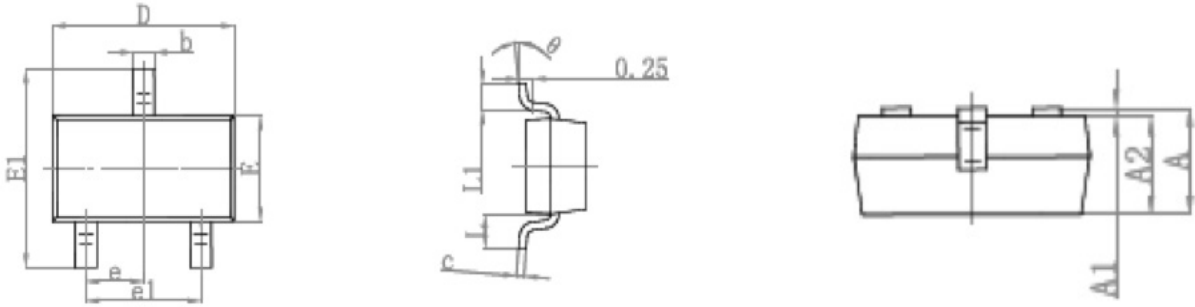


Power Derating Curve



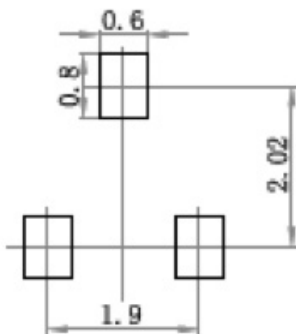


Package Outline Dimensions SOT-23



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°

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05mm.
3. The pad layout is for reference purposes only.

For more information, please contact us at: inquiry@goodarksemi.com