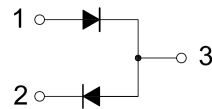
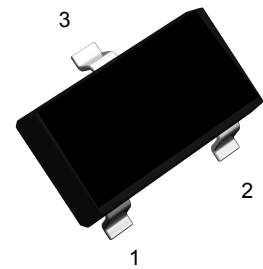


Features

- Dual switching diode
- Fast switching
- For general purpose switching applications



Schematic Diagram



SOT-23

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

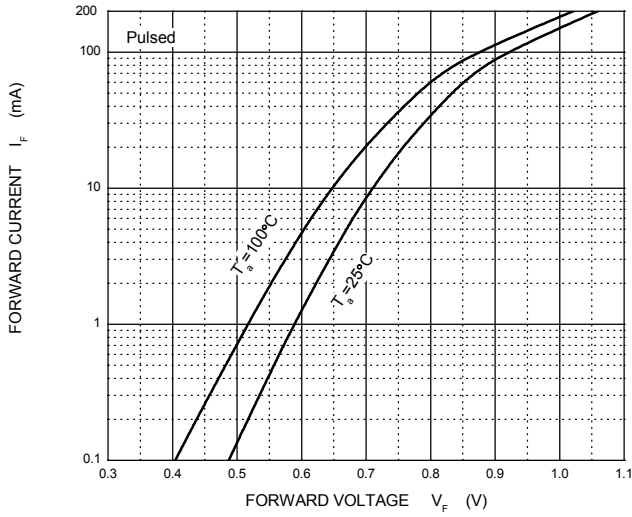
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RPM}	75	V
Working Peak Reverse Voltage	V _{RWM}		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Average Rectified Output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I _{FSM}	2	A
Power Dissipation	P _D	225	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	556	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

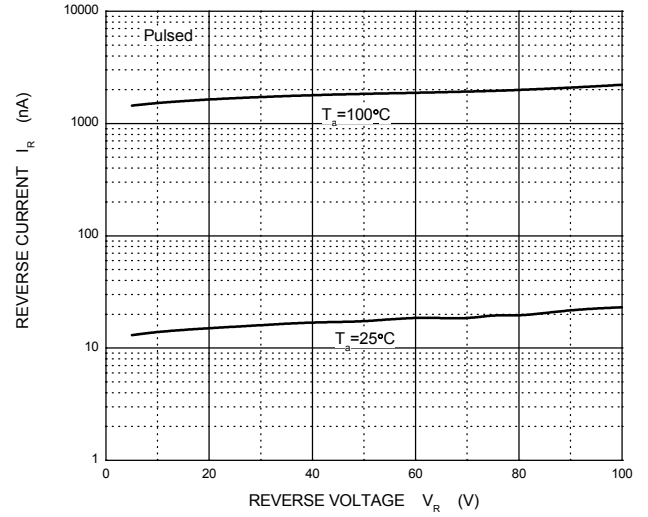
Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse Breakdown Voltage	V _(BR)	I _R =100μA	100	-	V
Reverse Voltage Leakage Current	I _R	V _R =50V V _R =100V	-	1.0 3.0	μA
Forward Voltage	V _F	I _F =1mA I _F =10mA I _F =100mA	0.55 0.67 0.75	0.7 0.82 1.1	V
Diode Capacitance	C _T	V _R =0V, f = 1.0MHz	-	2	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1 x I _R , R _L =100Ω	-	4	ns

Typical Electrical Characteristic Curves

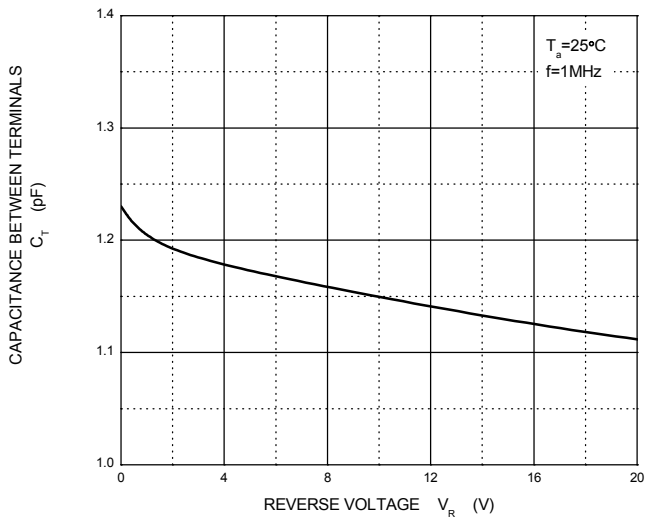
Forward Characteristics



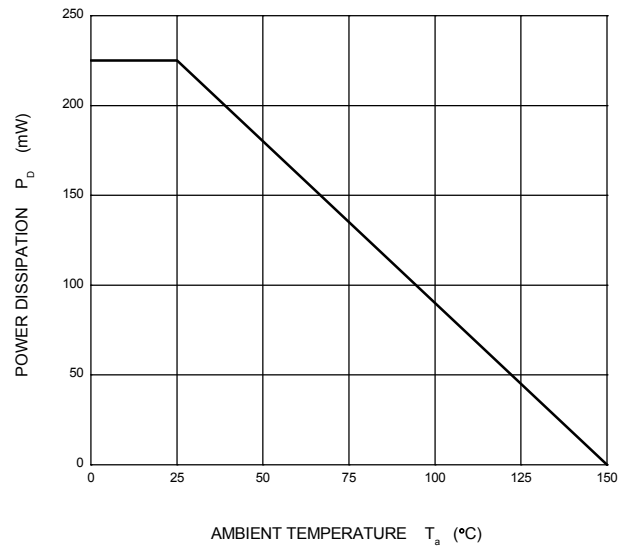
Reverse Characteristics



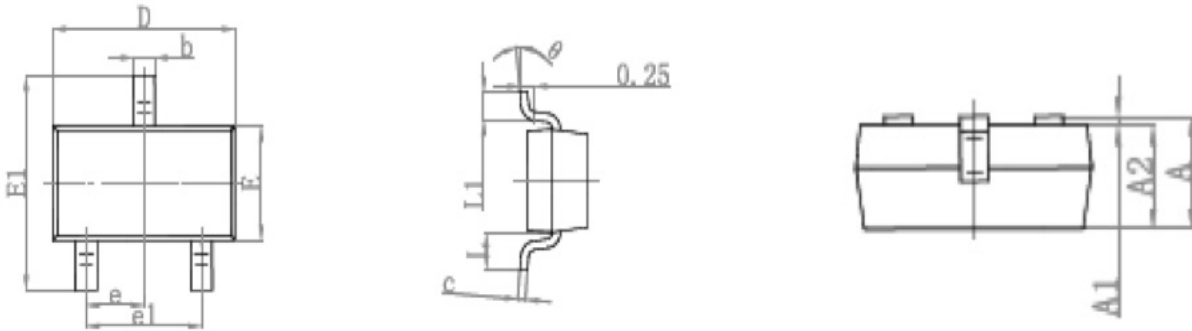
Capacitance Characteristics



Power Derating Curve

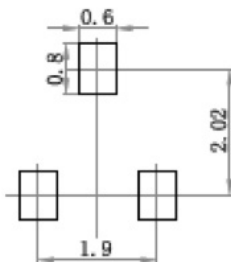


Package Outline Dimensions SOT-23



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: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.