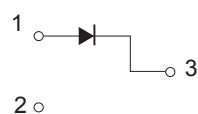


## Features

- Low leakage current
- For general purpose switching
- Medium speed switching times



Schematic Diagram

SOT-23

## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	75	V
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	200	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	2	A
Power Dissipation	$P_D$	225	mW
Junction Temperature	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ\text{C}$

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	75	-	-	V
Forward Voltage	$V_{F1}$	$I_F=1\text{mA}$	-	-	0.9	V
	$V_{F2}$	$I_F=10\text{mA}$	-	-	1	V
	$V_{F3}$	$I_F=50\text{mA}$	-	-	1.1	V
	$V_{F4}$	$I_F=150\text{mA}$	-	-	1.25	V
Reverse Current	$I_R$	$V_R=75\text{V}$	-	-	5	nA
Diode Capacitance	$C_{tot}$	$V_R=0\text{V}, f=1\text{MHz}$	-	2	-	pF
Reverse Recovery Time	$t_{rr}$	$I_F=IR=10\text{mA}, I_{rr}=0.1 \times IR, R_L=100\Omega$	-	-	3	$\mu\text{s}$

## Typical Characteristics Curves

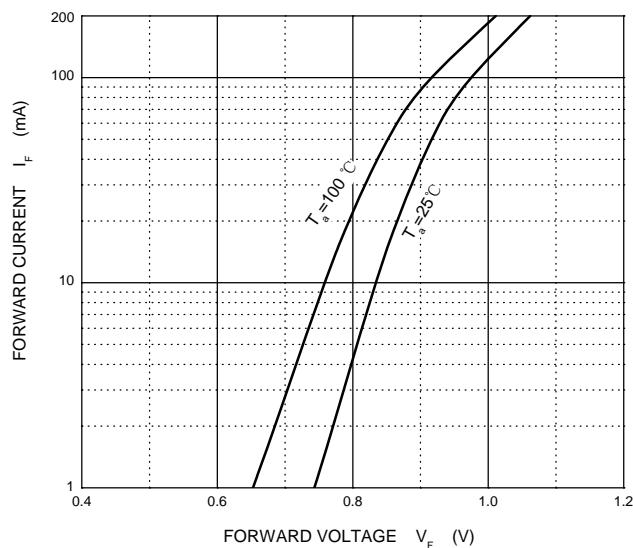


Figure 1. Forward Characteristics

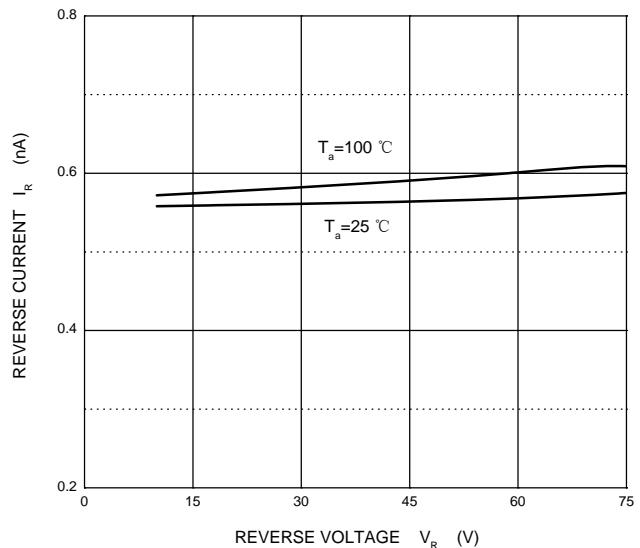


Figure 2. Reverse Characteristics

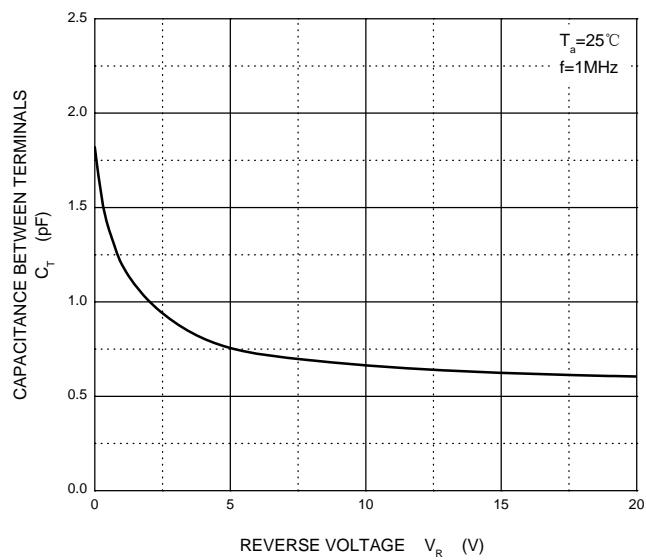


Figure 3. Capacitance Characteristics

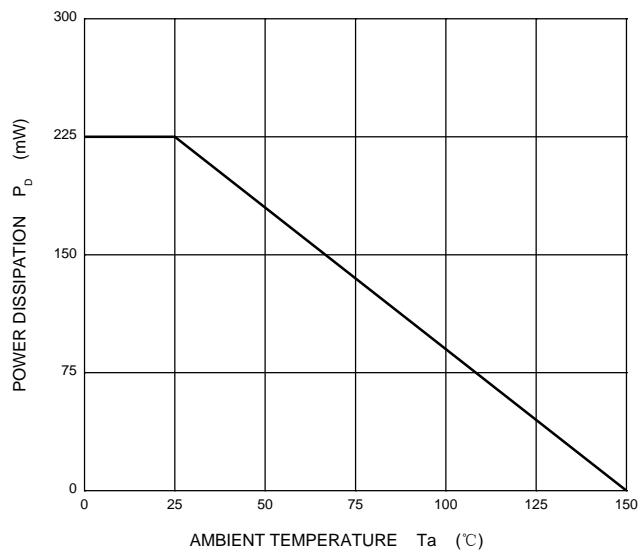
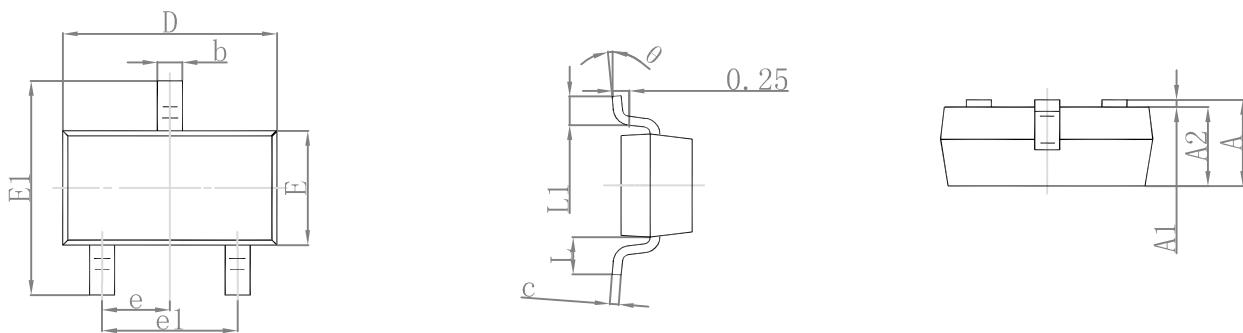


Figure 4. Power Derating Curve

## 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

