

Features

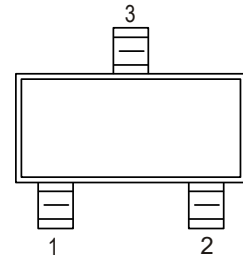
- ◆ Fast switching speed
- ◆ High Conductance

Applications

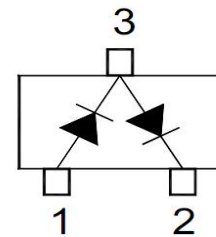
- ◆ For general purpose switching

SOT-23

RoHS
COMPLIANT



Equivalent circuit



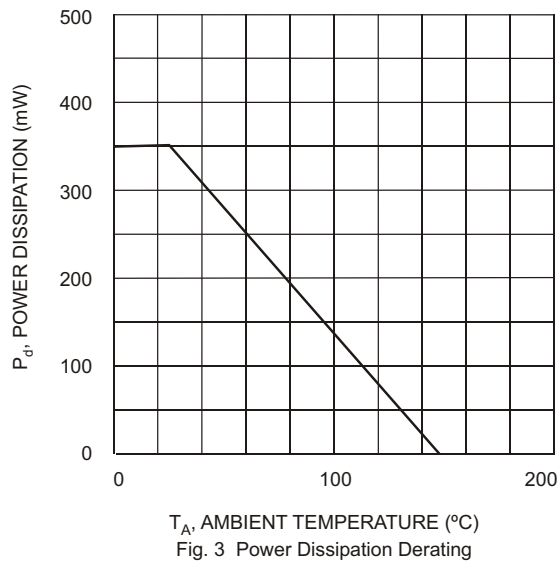
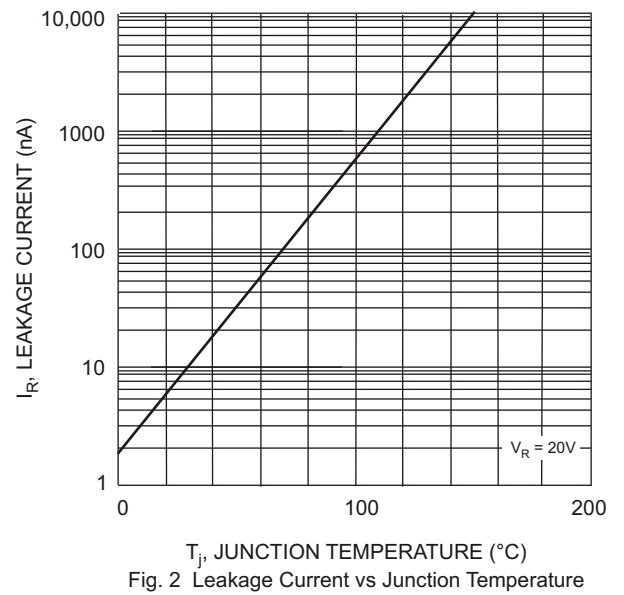
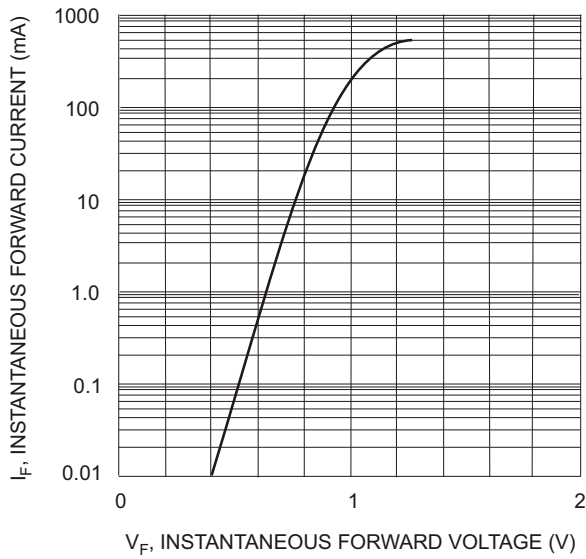
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	1 2	A
Power Dissipation	P_d	350	mW
Junction and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\ \mu\text{A}$	$V_{(BR)R}$	100	-	V
Forward Voltage at $I_F = 1\ \text{mA}$ at $I_F = 10\ \text{mA}$ at $I_F = 100\ \text{mA}$ at $I_F = 150\ \text{mA}$	V_F	0.55 0.67 0.75 -	0.7 0.82 1.1 1.25	V
Reverse Current at $V_R = 50\ \text{V}$ at $V_R = 100\ \text{V}$ at $V_R = 50\ \text{V}, T_j = 125^\circ\text{C}$	I_R	- - -	1 3 100	μA
Total Capacitance at $V_R = 0\ \text{V}, f = 1\ \text{MHz}$	C_T	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10\ \text{mA}, I_{tr} = 0.1 \times I_R, R_L = 100\ \Omega$	t_{rr}	-	4	ns

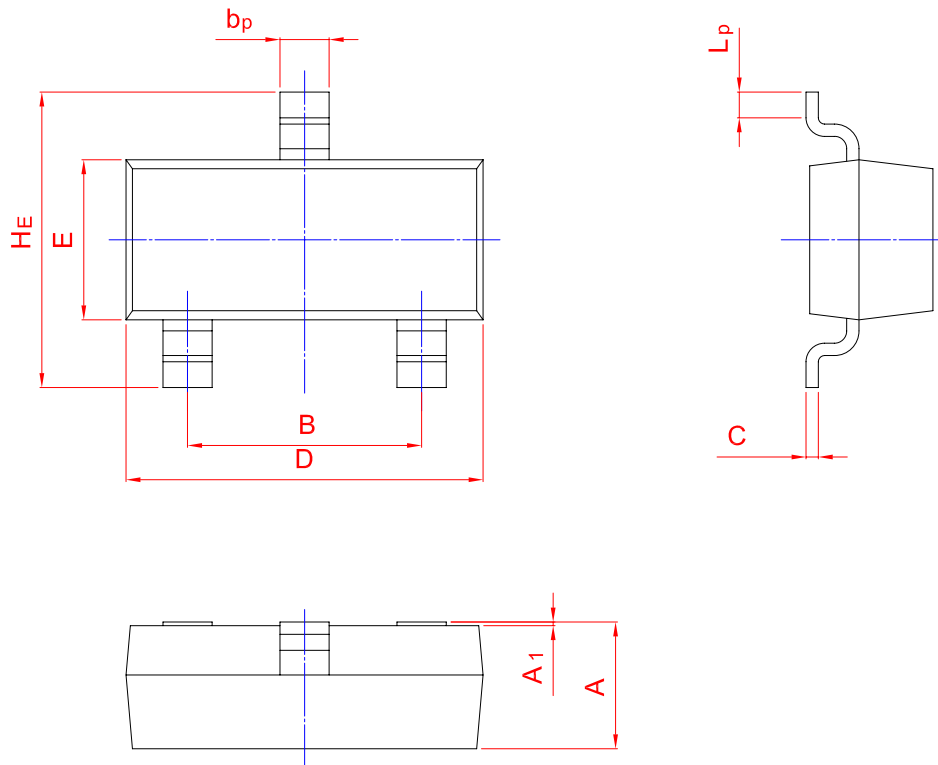
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20