

Features

- Fast switching speed
- High conductance



SOT23

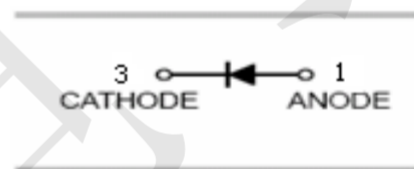
APPLICATIONS

- High speed switching application

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

Circuit Diagram



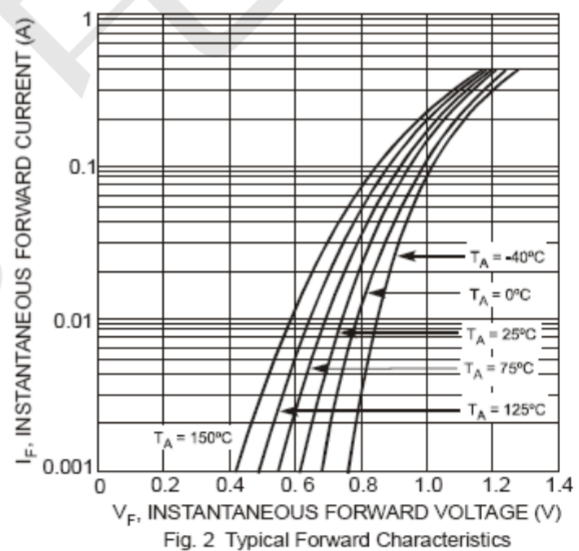
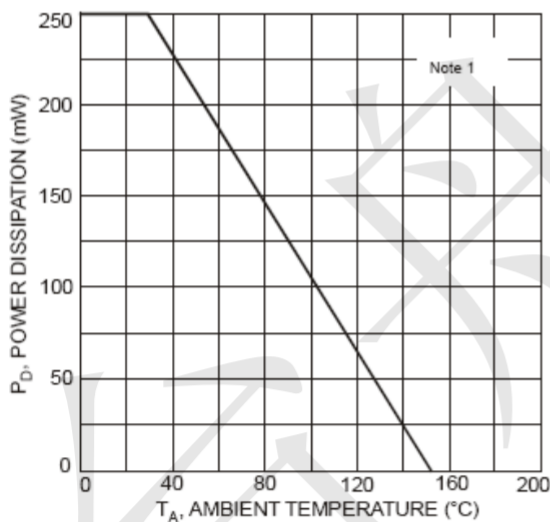
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	250	V
Working Peak Reverse Voltage	V _{RWM}	200	V
DC Reverse Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	141	V
Average rectified output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2.5	A
@t=1.0μs		0.5	
@t=1.0s			
Repetitive Peak Forward Surge Current	I _{FRM}	625	mW
Power Dissipation	P _D	250	
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Operating Junction Temperature Range	T _J	150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

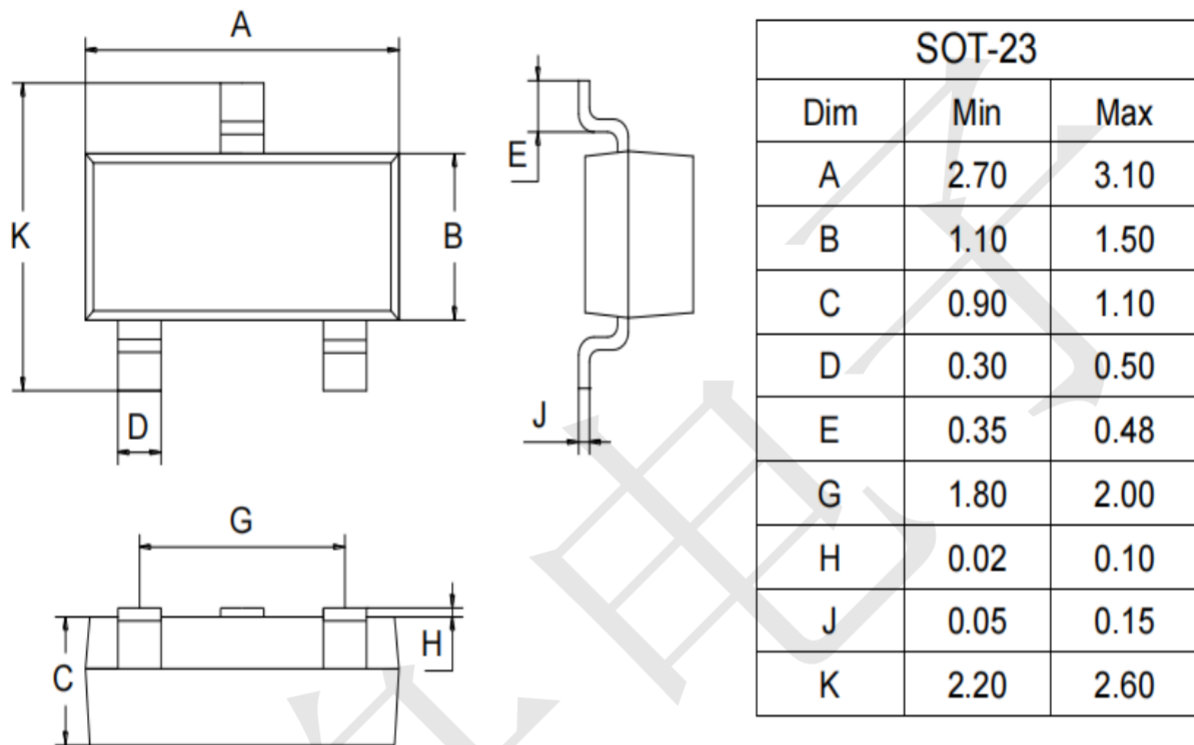
Electrical Characteristics ($T = 25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	250		V	$I_R = 100\mu\text{A}$
Forward Voltage	V_F	-	1.0 1.25	V	$I_F = 100\text{mA}$ $I_F = 200\text{mA}$
Reverse Leakage Current	I_R	-	0.1 15	μA	$V_R = 100\text{V}$ $V_R = 100\text{V}, T_j = 100^{\circ}\text{C}$
Junction Capacitance	C_j	-	5.0	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F = I_R = 30\text{mA}, I_{rr} = 0.1 \cdot I_R$

Typical Electrical Characteristic Curves



Outline Drawing - SOT23 (unit: mm)



Mounting Pad Layout-SOT23 (unit: mm)

