

Features

- Fast switching speed
- High conductance

APPLICATIONS

- High speed switching application

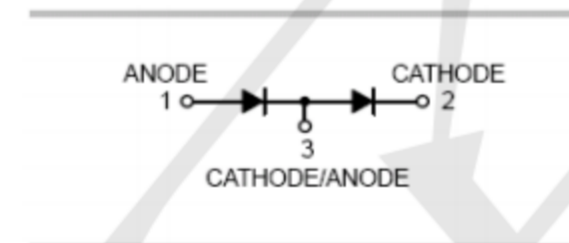
Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

SOT23



Circuit Diagram



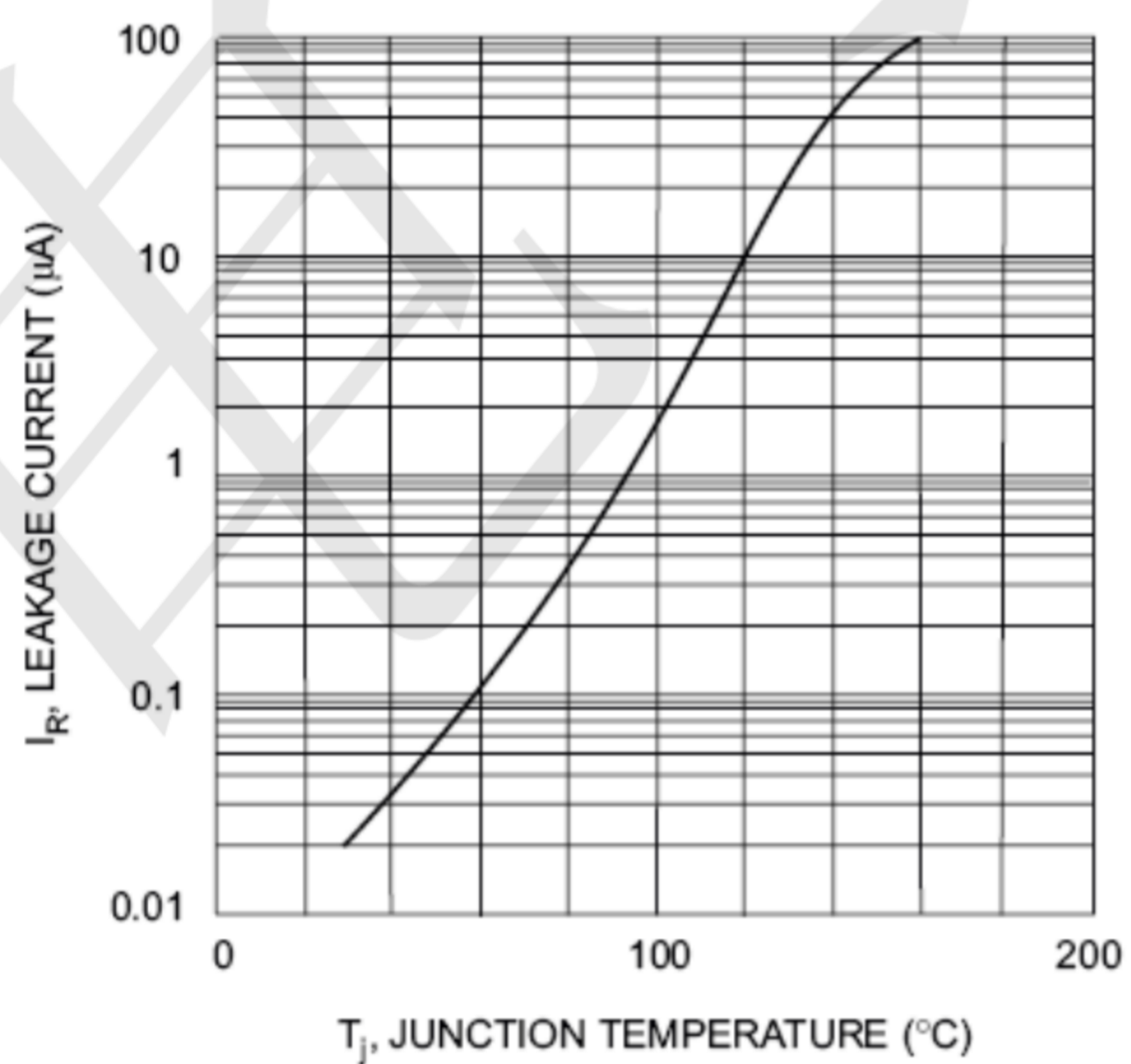
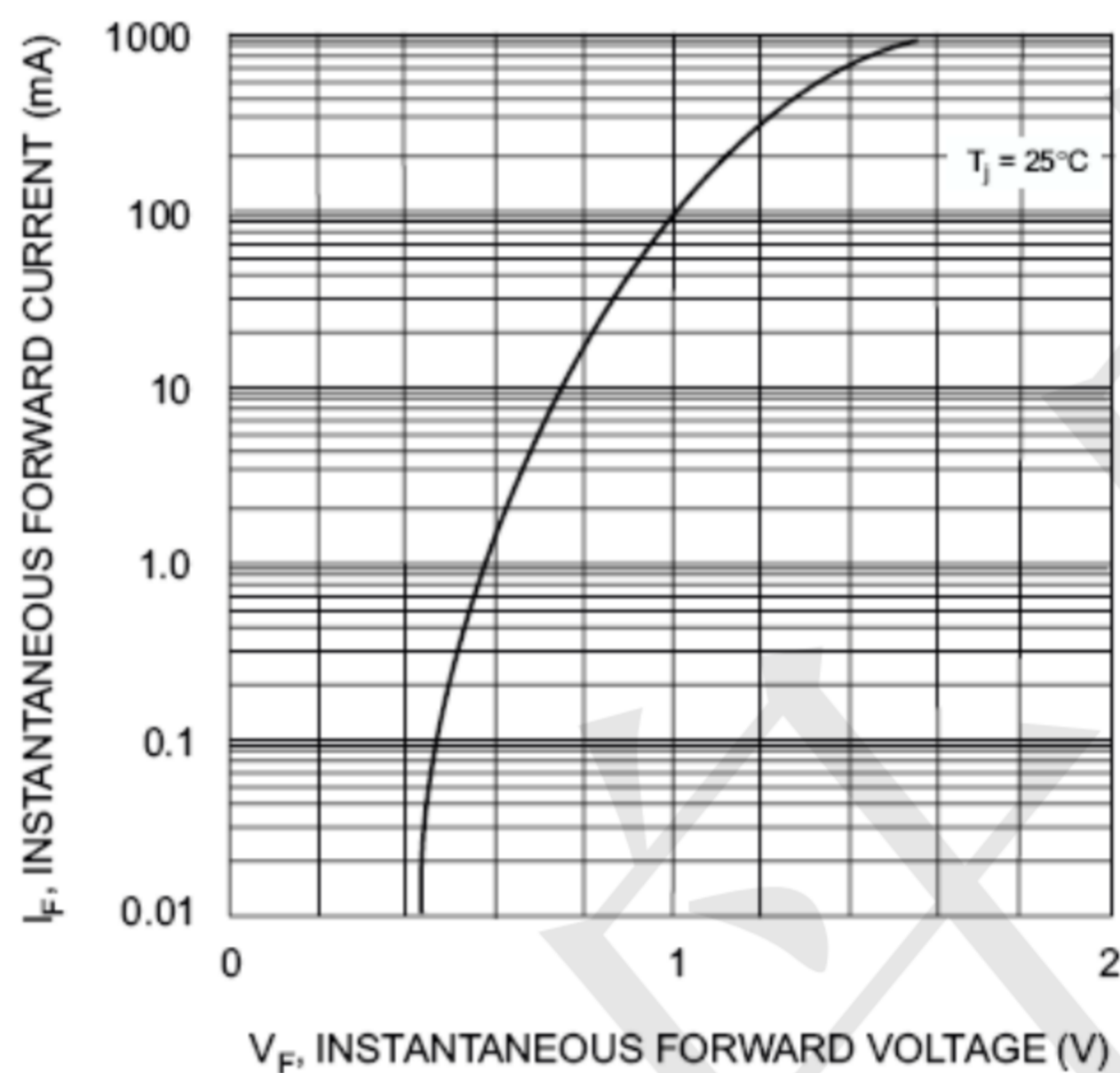
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	250	V
Working Peak Reverse Voltage DC Reverse Voltage	V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Forward Continuous Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms @t=1.0 ms	I _{FSM}	2 2.5	A A
Power Dissipation	P _D	250	mW
Thermal Resistance Junction to Air *1	R _{θJA}	353	°C/W
Thermal Resistance Junction to Case*1	R _{θJC}	183	°C/W
Thermal Resistance Junction to Lead *1	R _{θJL}	152	°C/W
Operating Junction Temperature Range	T _J	-65 to +150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

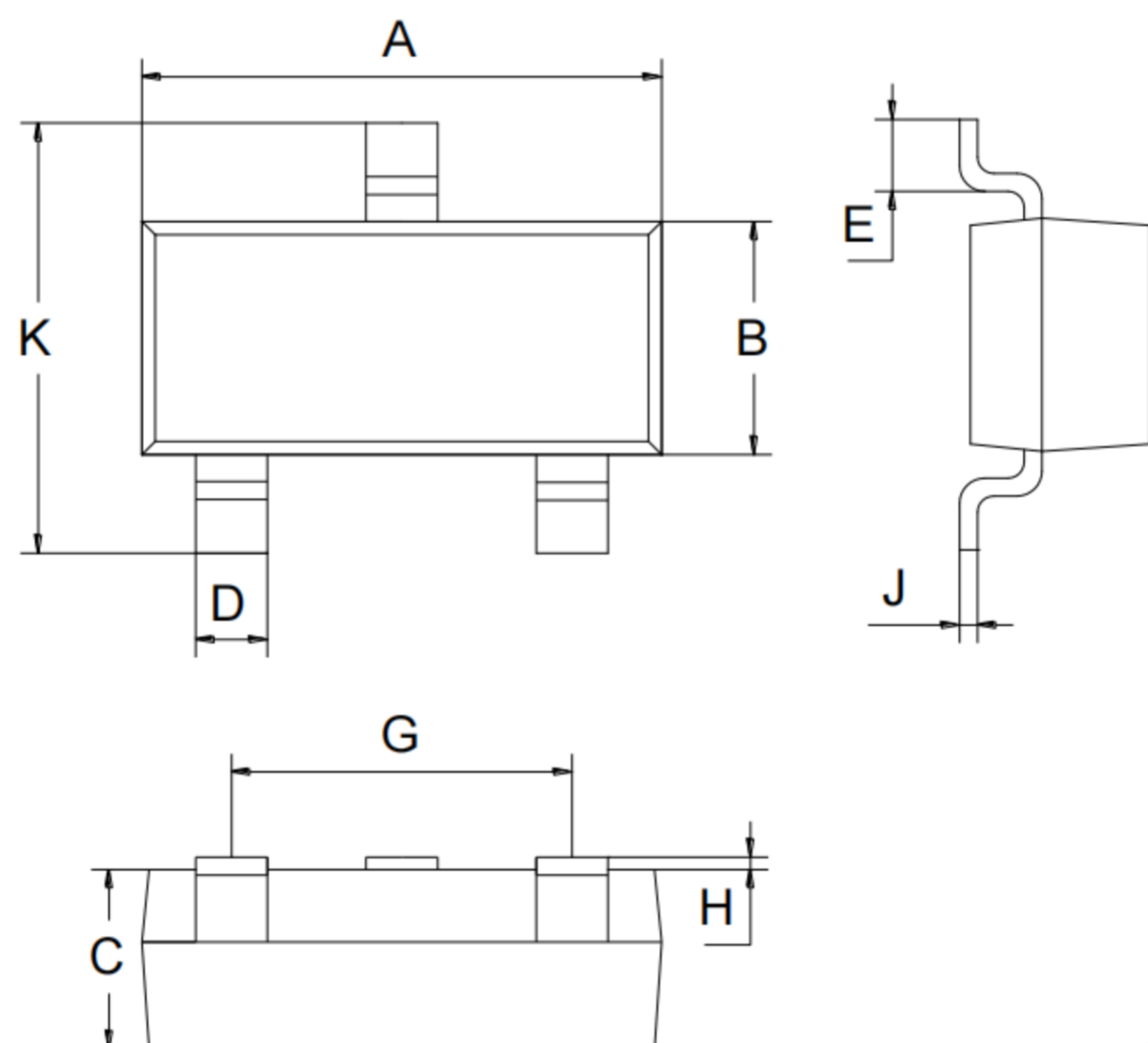
Electrical Characteristics (T = 25°C unless otherwise noted)

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse breakdown Voltage	$V_{(BR)R}$	250	-	V	$I_R=100\mu A$
Reverse Leakage Current	I_R	-	0.1 15	μA	$V_R=200V, T_j=25^\circ C$ $V_R=200V, T_j=100^\circ C$
Forward voltage	V_F	-	1000 1250	mV	$I_F=100mA$ $I_F=200mA$
Diode Capacitance	C_D	-	5.0	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=10mA$ $I_{rr}=0.1 \cdot I_R$

Typical Electrical Characteristic Curves



Outline Drawing - SOT23 (unit: mm)



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60

Mounting Pad Layout-SOT23 (unit: mm)

