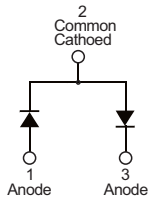
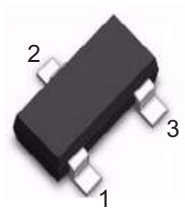
SYMBOL

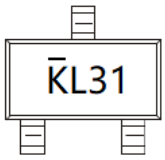




FEATURES

Fast Switching Speed
High Conductance
For General Purpose Switching Applications

MARKING



■ MAIMUM RATINGS (Ta = 25°C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Working Peak Reverse Voltage	V_{RWM}	250	V
DC Blocking Voltage	V_R	175	V
Forward Continuous Current	I_{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	1.7	A
Repetitive Peak Forward Current	I_{FRM}	625	mA
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	℃/W
Operating Junction Temperature Range	T_J	-55 ~ +150	℃
Storage Temperature Range	T_{stg}	-55 ~ +150	℃

■ ELECTRICAL CHARACTERISTICS(Ta = 25°C, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	250	-	-	V
Forward voltage	V_F	I_{F1}=100mA	-	-	1	V
		I_{F2}=200mA	-	-	1.25	V
Reverse current	I_R	V_R=250V	-	-	0.1	μA
Total capacitance	C_{tot}	V_R=0V,f=1MHz	-	-	5	pF
Reverse recovery time	t_{rr}	I_F=I_R=30mA Irr=3mA,R_L=100Ω	-	-	50	ns

■ TYPICAL CHARACTERISTICS

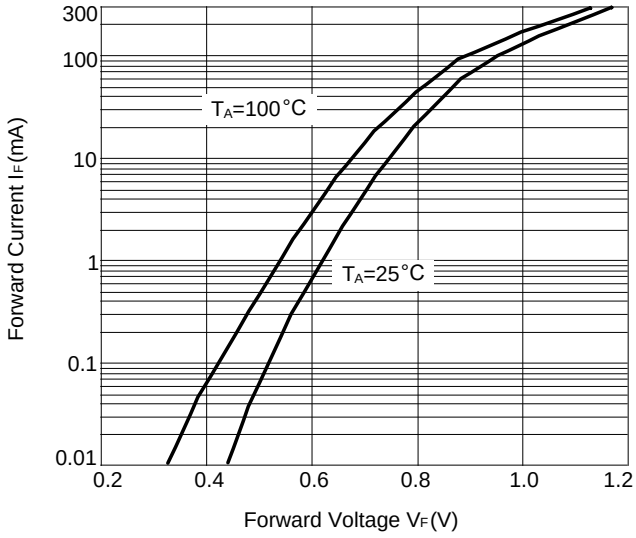


Figure 1: Forward Characteristics

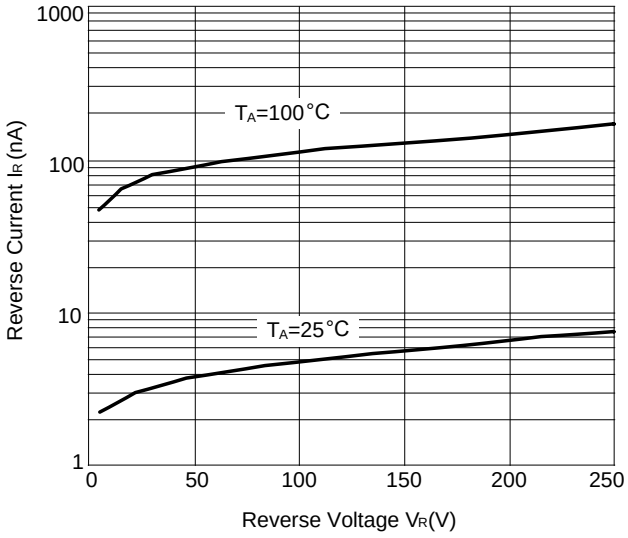


Figure 2: Reverse Characteristics

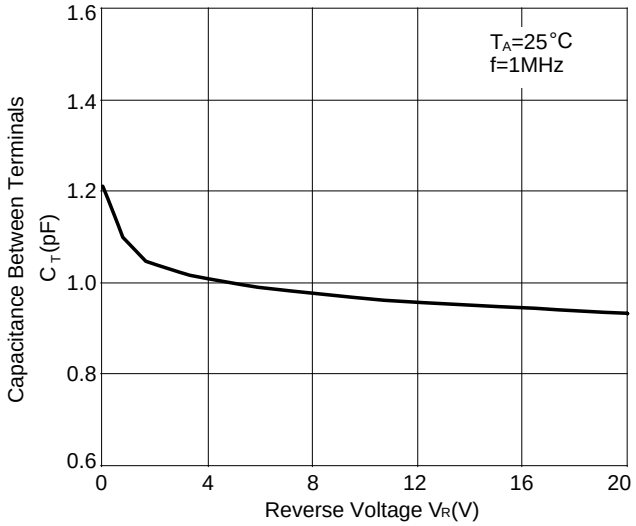


Figure 3: Capacitance Characteristics

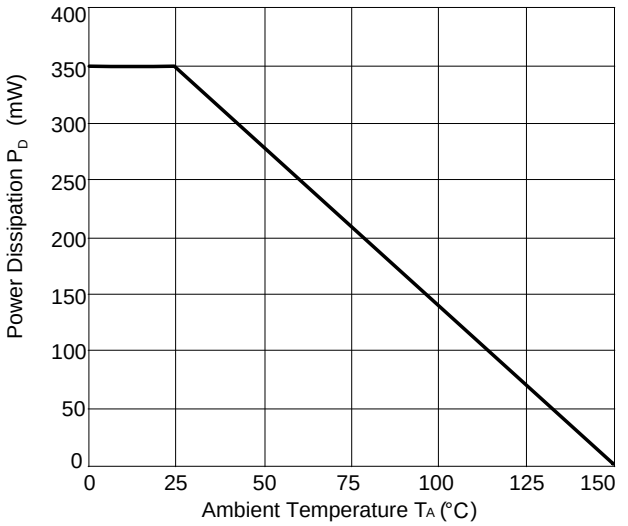
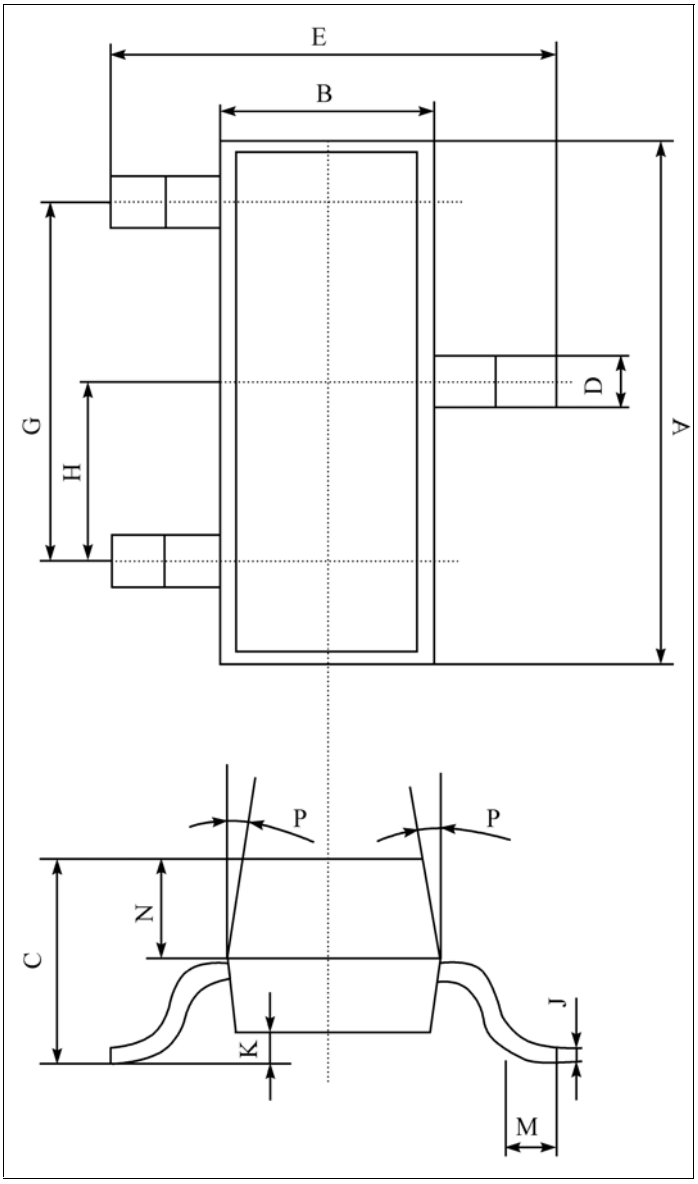


Figure 4: Power Derating Curve

■SOT-23 PACKAGE OUTLINE DIMENSIONS

单位（UNIT）：mm



序号	数值及公差
A	2.90±0.10
B	1.30±0.10
C	1.00±0.10
D	0.40±0.10
E	2.40±0.20
G	1.90±0.10
H	0.95±0.05
J	0.13±0.05
K	0.00-0.10
M	≥0.20
N	0.60±0.10
P	7±2°

Packing
SOT-23 包装规格
SMD片式表面贴封装
包装方式: 载带卷盘包装
Tape & Reel, 3Kpcs/Reel
每卷数量3000只（3Kpcs/Reel）
每盒数量45000只（45Kpcs/BOX）
每箱数量180000只（180Kpcs/Cartons）