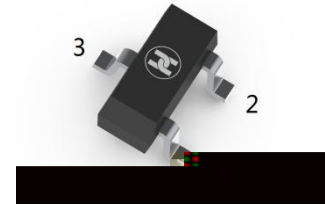
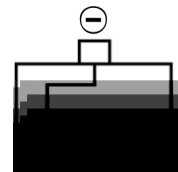


## SCHOTTKY BARRIER DIODE

- Low Forward Voltage
- Fast Switching
- Surface Mount device
- For General Purpose Switching Applications



- Case: SOT-23
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.013 grams (approximate)

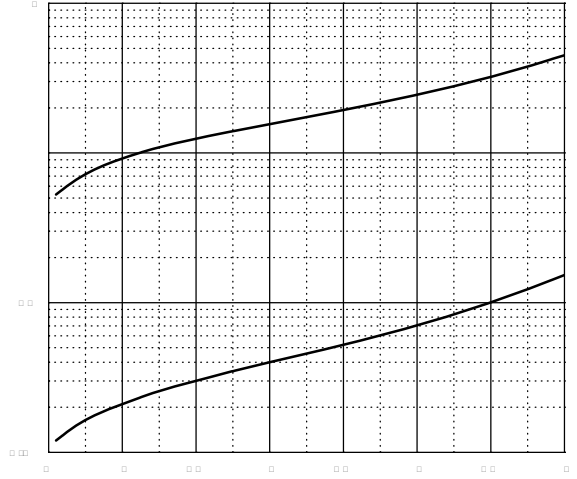
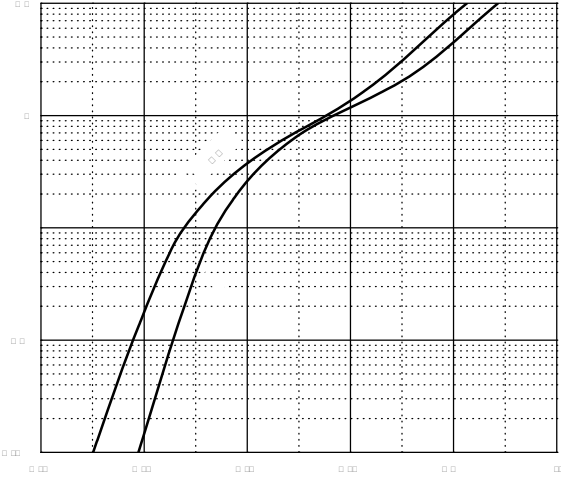


BAS 0:BE

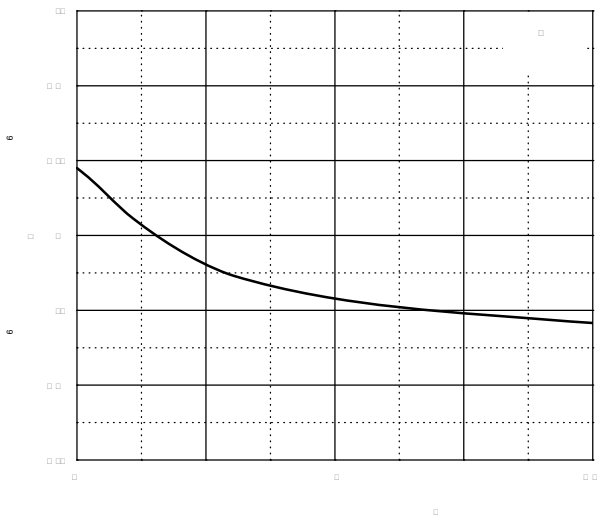
Reverse Voltage	$V_R$	70	V
Forward Current	$I_F$	70	mA
Non-Repetitive Peak Forward Surge Current @ $t = 8.3 \text{ ms}$	$I_{FSM}$	100	mA
Power Dissipation	$P_D$	200	mW
Thermal Resistance From Junction To Ambient	$R_{JA}$	500	$^{\circ}\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55 ~+150	$^{\circ}\text{C}$

Reverse breakdown voltage	$V_{(BR)}$	70	V	$I_R=10\mu\text{A}$
Reverse voltage leakage current	$I_R$	100	nA	$V_R=50\text{V}$
Forward voltage	$V_{F1}$	0.41	V	$I_{F1}=1 \text{ mA}$
	$V_{F2}$	1	V	$I_{F2}=15\text{mA}$
Diode capacitance	$C_D$	2	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse recovery time	$T_{rr}$	5	nS	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \times I_R$ $R_L=100$

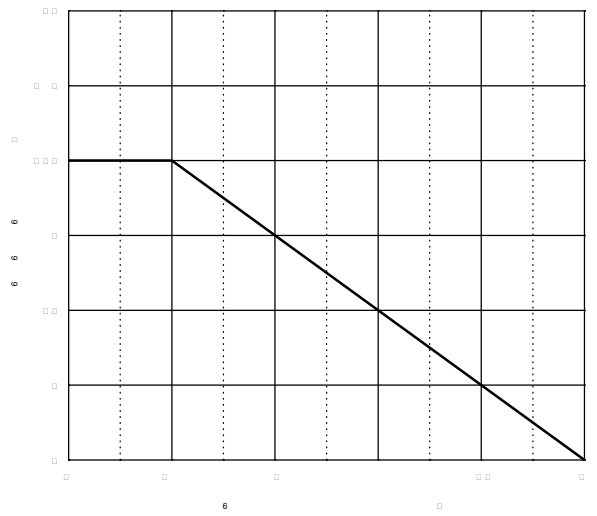
**Forward Characteristics**



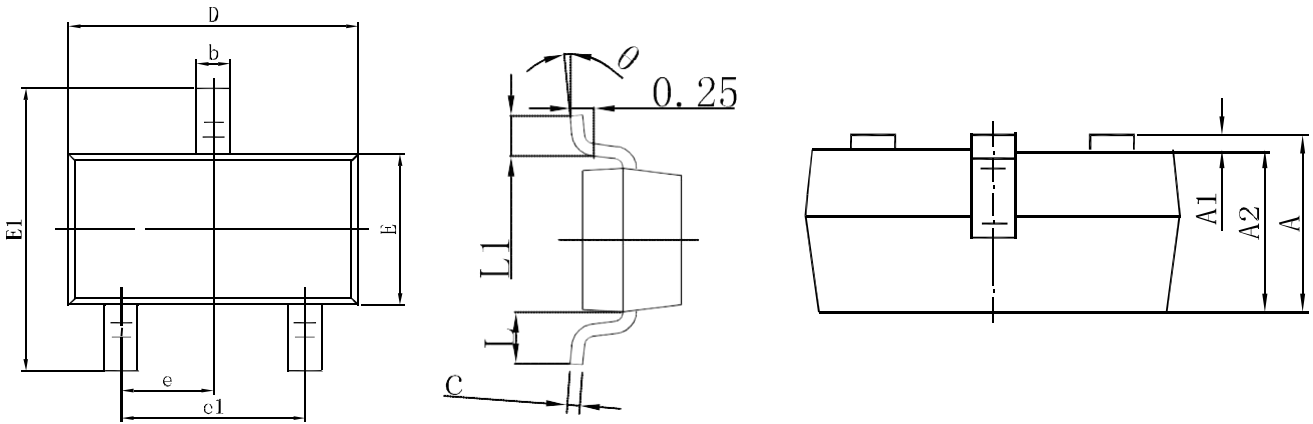
**Capacitance Characteristics**



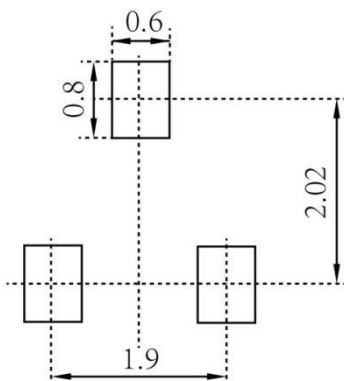
**Power Derating Curve**



SCHOTTKY BARRIER DIODE



	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
	0°	8°	0°	8°



1. Controlling dimension: in millimeters
2. General tolerance: ±0.05mm
3. The pad layout is for reference purposes only

SCHOTTKY BARRIER DIODE

