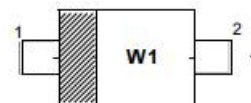


**SOD-123 Switching Diode 开关二极管**

■ Features 特点

Fast Switching Speed 快的开关速度  
Surface mount device 表面贴装器件  
High Conductance 高电导率  
Case 封装:SOD-123  
Marking 印字: W1



■ Maximum Rating 最大额定值

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

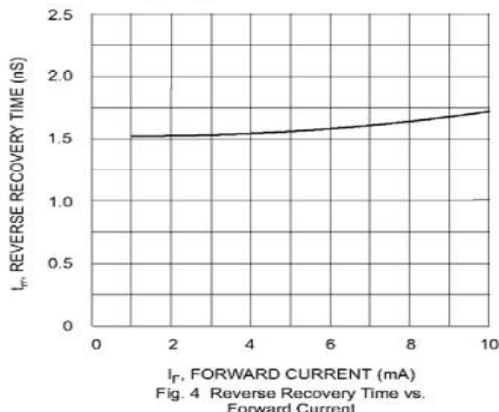
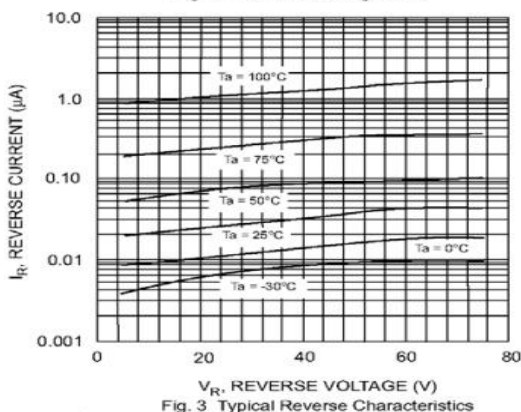
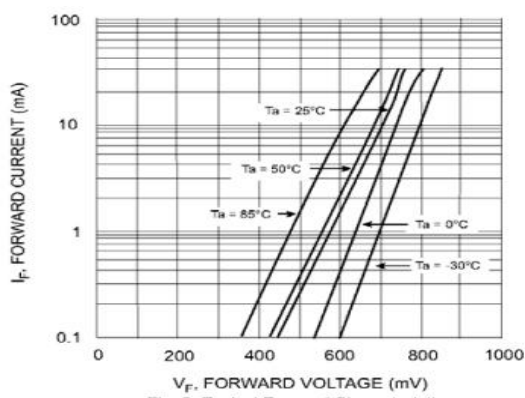
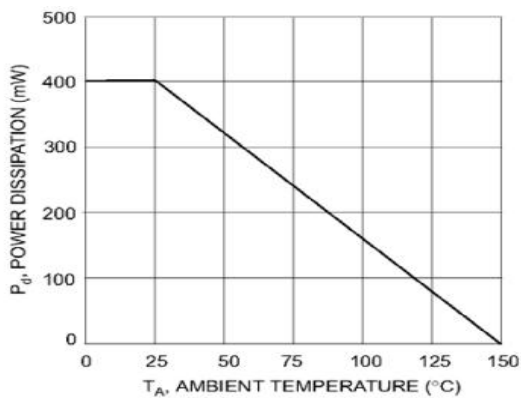
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Non-Repetitive Peak Reverse Voltage 不重复反向峰值电压	$V_{RM}$	100	V
DC Reverse Voltage 直流反向电压	$V_R$	80	V
Forward Rectified Output Current 正向工作电流	$I_O$	150	mA
Non-Repetitive Peak Surge Current@ $t=1\mu\text{s}$ 不重复峰值浪涌电流	$I_{FSM}$	4	A
Power Dissipation 耗散功率	$P_D$	400	mW
Thermal Resistance Junction-Ambient 结到环境热阻	$R_{\theta JA}$	313	$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	$T_J, T_{stg}$	-50to+150 $^{\circ}\text{C}$	$^{\circ}\text{C}$

■ Electrical Characteristics 电特性

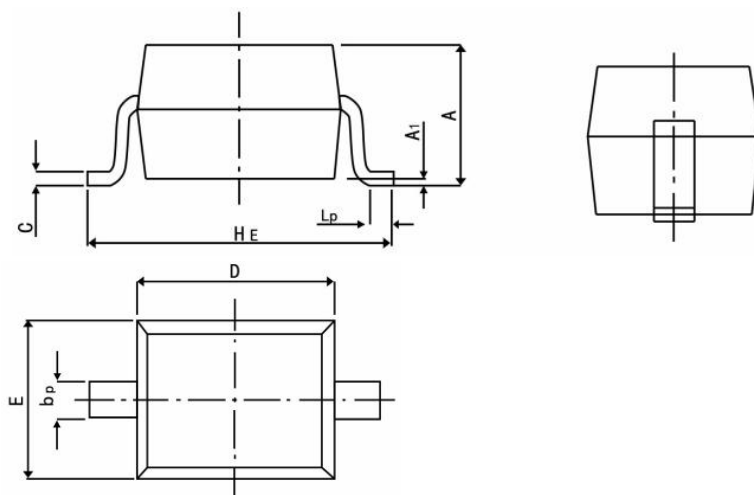
( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位	Condition 条件
Reverse Voltage 反向电压	$V_R$	80		V	$I_R=100\mu\text{A}$
Forward Voltage 正向电压	$V_F$	0.62	0.72 0.855 1.0 1.25	V	$I_F=5\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$ $I_F=150\text{mA}$
Reverse Current 反向电流	$I_R$		100 25 50 30	nA nA $\mu\text{A}$ $\mu\text{A}$	$V_R=80\text{V}$ $V_R=20\text{V}$ $V_R=75\text{V } T_J=150^{\circ}\text{C}$ $V_R=20\text{V } T_J=150^{\circ}\text{C}$
Junction Capacitance 结电容	$C_J$		4	pF	$V_R=0.5\text{V}, f=1\text{MHz}$
Revers Recovery Time 反向恢复时间	$T_{rr}$		4	nS	$I_{rr} = 0.1 * I_R, I_F = I_R = 10 \text{ mA}, R_L = 100\Omega$

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸



(mm)	A	bp	C	D	E	HE	A <sub>1</sub>	Lp
Min	0.9	0.5	0.1	2.55	1.55	3.55	0.01	0.2
Max	1.2	0.6	0.135	2.75	1.65	3.85	0.1	0.5