

**SOD-123 Schottky Barrier Rectifier Diode 肖特基势垒整流二极管**

■ **Features 特点**

Low forward voltage drop 低正向压降  
High current capability 高电流能力  
Surface mount device 表面贴装器件  
Case 封装:SOD-123



■ **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  $25^{\circ}\text{C}$ )

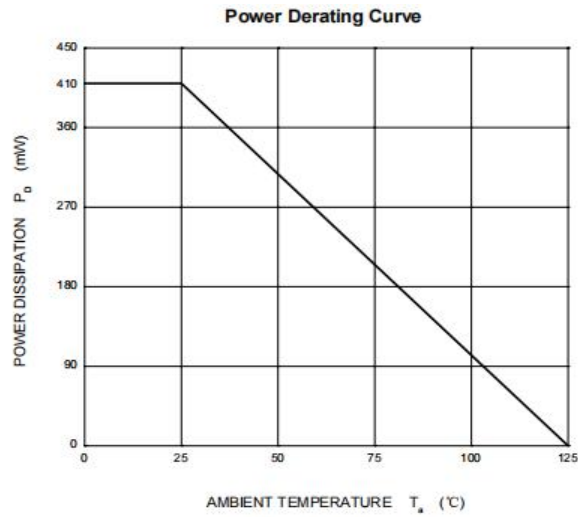
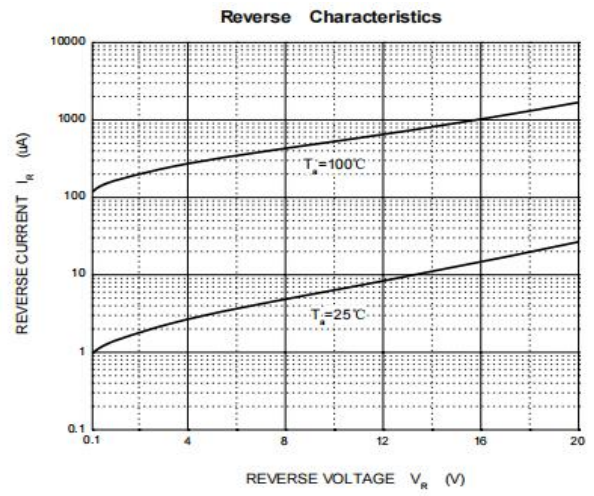
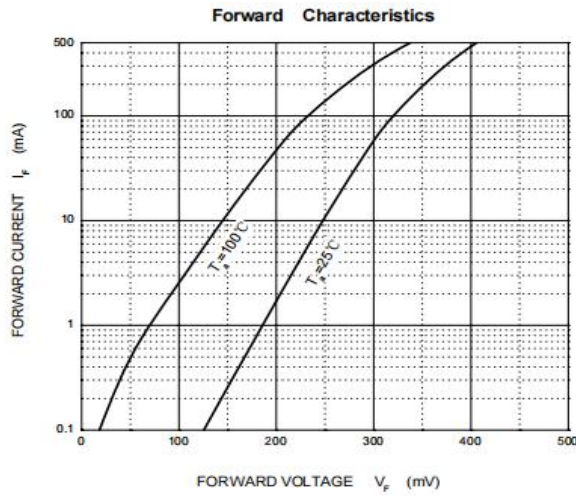
Characteristic 特性参数	Symbol 符号	MBR0520	MBR0530	MBR0540	MBR0560	MBR0580	Unit 单位
Device Marking 产品印字		R2	R3	R4	R6	R8	V
Peak Reverse Voltage 反向峰值电压	$V_{RRM}$	20	30	40	60	80	V
DC Reverse Voltage 直流反向电压	$V_R$	20	30	40	60	80	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	14	21	28	42	56	V
Forward Rectified Current 正向整流电流	$I_F$	0.5					A
Peak Surge Current 峰值浪涌电流	$I_{FSM}$	5.5					A
Power Dissipation 耗散功率	$P_D$	410					mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	245					$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	$T_J, T_{stg}$	$-50\text{to}+125^{\circ}\text{C}$					$^{\circ}\text{C}$

■ **Electrical Characteristics 电特性**

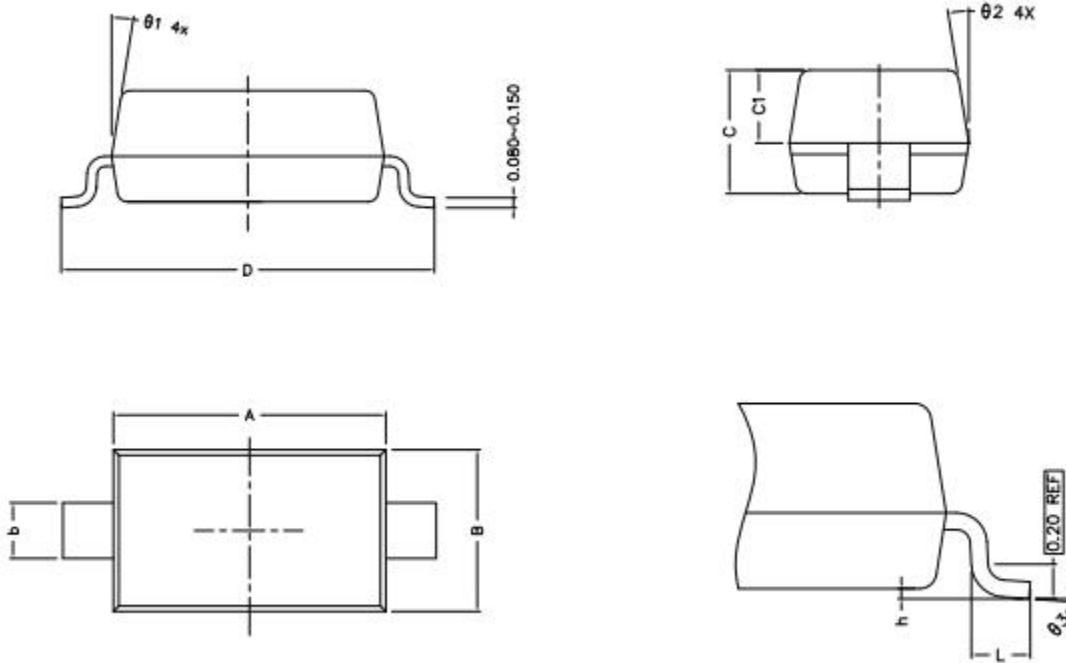
( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

Characteristic 特性参数	Symbol 符号	MBR0520	MBR0530	MBR0540	MBR0560	MBR0580	Unit 单位	Condition 条件
Reverse Voltage 反向电压	$V_R$	20	30	40	60	80	V	$I_R=1\text{mA}$
Forward Voltage 正向电压	$V_F$	0.45	0.55	0.55	0.7	0.8	V	$I_F=0.5\text{A}$
Reverse Leakage Current 反向漏电流	$I_R$	80					$\mu\text{A}$	$V_R=V_{RRM}$
Diode Capacitance 二极管电容	$C_T$	30					pF	$V_R=4\text{V}, f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸 SOD-123



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.600	2.800	0.102	0.110
B	1.500	1.700	0.059	0.067
C	1.050	1.150	0.041	0.045
C1	0.600	0.700	0.024	0.028
D	3.550	3.850	0.140	0.152
L	0.250	0.450	0.010	0.018
b	0.450	0.650	0.018	0.026
h	0.020	0.120	0.001	0.005
$\theta 3$	$0^\circ$	$7^\circ$	$0^\circ$	$7^\circ$