

SOD-323 Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

■Features 特点

High current capability 高电流能力

Low forward voltage drop 低正向压降

Guard Ring Construction for Transient Protection 瞬态保护环结构

Case 封装:SOD-323



■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°C)

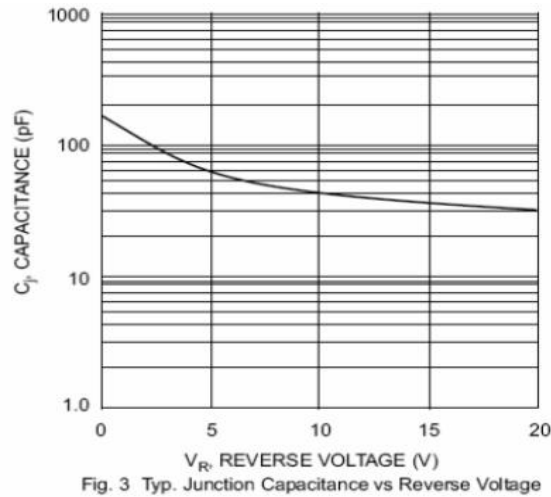
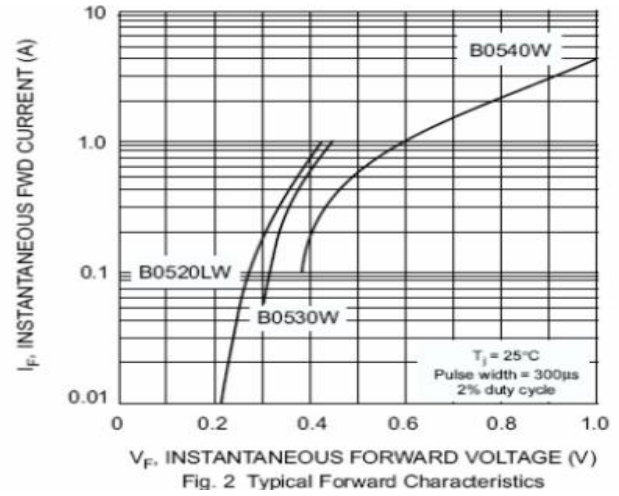
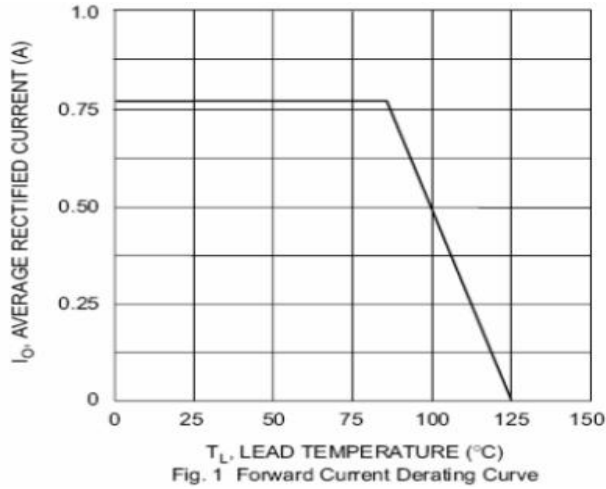
Characteristic 特性参数	Symbol 符号	B0520WS	B0530WS	B0540WS	Unit 单位
Device Marking 产品印字		SD	SE	SF	
Peak Reverse Voltage 反向峰值电压	V_{RRM}	20	30	40	V
Peak Reverse Working Voltage 反向峰值工作电压	V_{RWM}	20	30	40	V
DC Reverse Voltage 直流反向电压	V_R	20	30	40	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	14	21	28	V
Forward Rectified 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	200			mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	625			$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	T_J, T_{stg}	-50to+150			$^{\circ}\text{C}$

■Electrical Characteristics 电特性

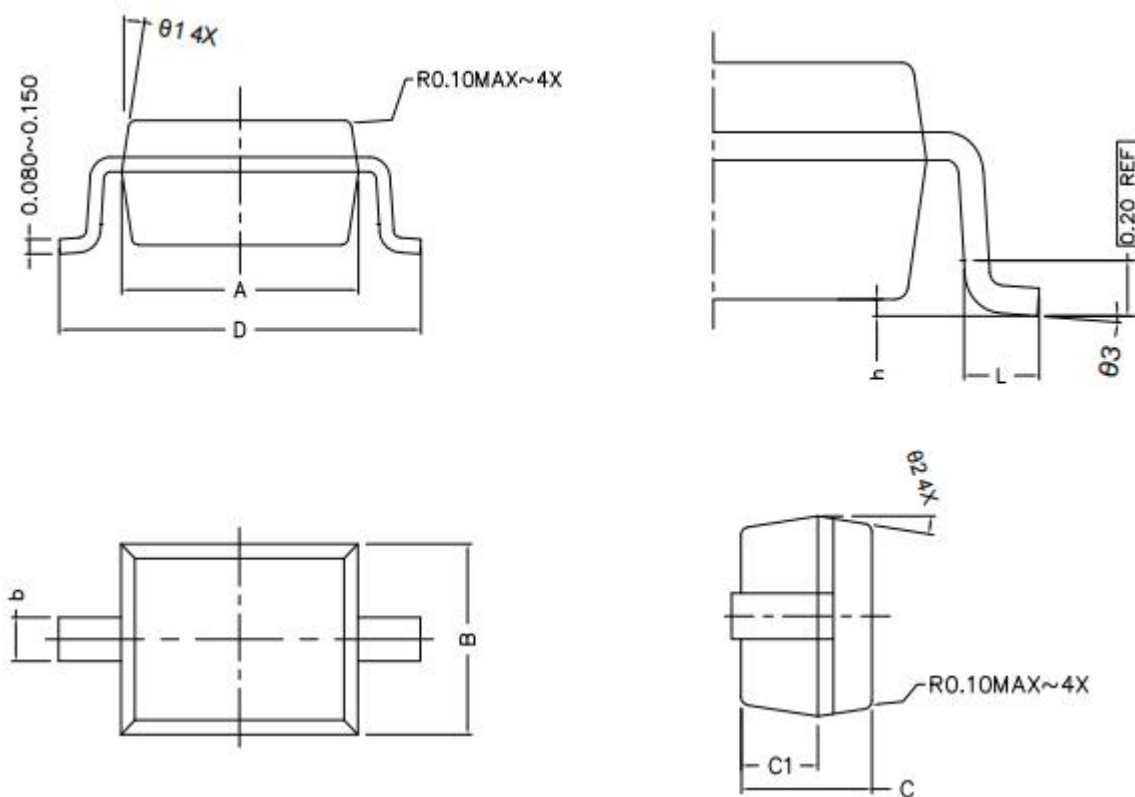
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	B0520WS	B0530WS	B0540WS	Unit 单位	Condition 条件
Reverse Voltage 反向电压	V_R	20	30	40	V	$I_R=250\mu\text{A}$ $I_R=500\mu\text{A}$ $I_R=20\mu\text{A}$
Forward Voltage 正向电压	V_F	0.3 0.385	0.36 0.45	0.51 0.62	V	$I_F=0.1\text{A}$ $I_F=0.5\text{A}$ $I_F=1\text{A}$
Reverse Current 反向电流	I_R	75 200	80 100 500	10 20	μA	$V_R=10\text{V}$ $V_R=15\text{V}$ $V_R=20\text{V}$ $V_R=30\text{V}$ $V_R=40\text{V}$
Diode Capacitance 二极管电容	C_T	170			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



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.600	1.800	0.063	0.071
B	1.200	1.400	0.047	0.055
C	0.750	0.950	0.030	0.037
C1	0.450	0.550	0.018	0.022
D	2.450	2.800	0.096	0.110
L	0.200	0.400	0.008	0.016
b	0.200	0.400	0.008	0.016
h	0.020	0.120	0.001	0.005
$\ominus 3$	0°	8°	0°	8°