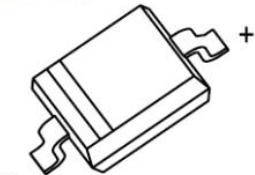


**SOD-323 Schottky Barrier Rectifier Diode 肖特基势垒整流二极管****SOD-323****■Features 特点**

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**

(TA=25°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 <sub>RRM</sub>	20	30	40	V
Peak Reverse Working Voltage 反向峰值工作电压	V <sub>RWM</sub>	20	30	40	V
DC Reverse Voltage 直流反向电压	V <sub>R</sub>	20	30	40	V
RMS Reverse Voltage 反向电压均方根值	V <sub>R(RMS)</sub>	14	21	28	V
Forward Rectified Current 正向整流电流	I <sub>F</sub>	0.5			A
Peak Surge Current 峰值浪涌电流	I <sub>FSM</sub>	5.5			A
Power Dissipation 耗散功率	P <sub>D</sub>	200			mW
Thermal Resistance J-A 结到环境热阻	R <sub>θJA</sub>	625			°C/W
Junction/Storage Temperature 结温/储藏温度	T <sub>J,T<sub>stg</sub></sub>	-50to+150			°C

**■Electrical Characteristics 电特性**

(TA=25°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 <sub>R</sub>	20	30	40	V	I <sub>R</sub> =250μA I <sub>R</sub> =500μA I <sub>R</sub> =20μA
Forward Voltage 正向电压	V <sub>F</sub>	0.3 0.385	0.36 0.45	0.51 0.62	V	I <sub>F</sub> =0.1A I <sub>F</sub> =0.5A I <sub>F</sub> =1A
Reverse Current 反向电流	I <sub>R</sub>	75 200	80 100 500	10 20	μA	V <sub>R</sub> =10V V <sub>R</sub> =15V V <sub>R</sub> =20V V <sub>R</sub> =30V V <sub>R</sub> =40V
Diode Capacitance 二极管电容	C <sub>T</sub>	170			pF	V <sub>R</sub> =4V,f=1MHz

■Typical Characteristic Curve 典型特性曲线

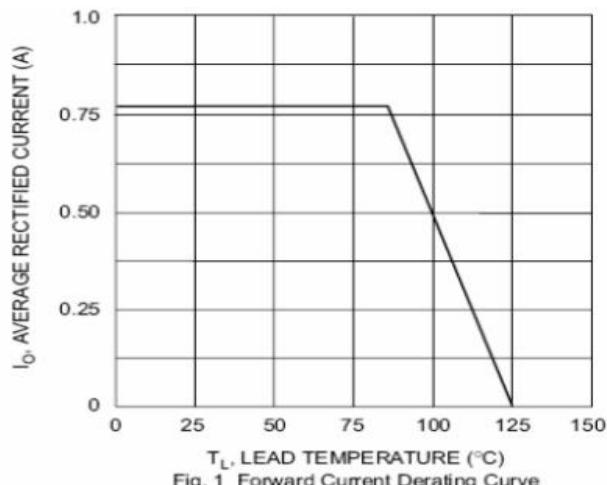


Fig. 1 Forward Current Derating Curve

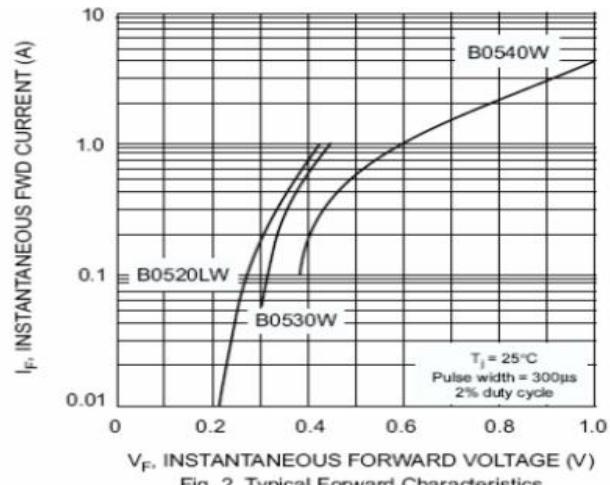


Fig. 2 Typical Forward Characteristics

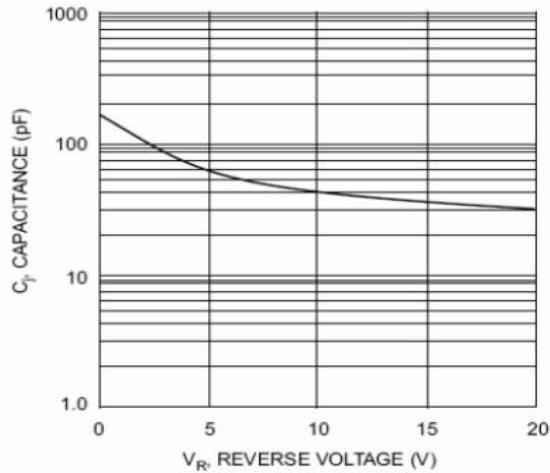
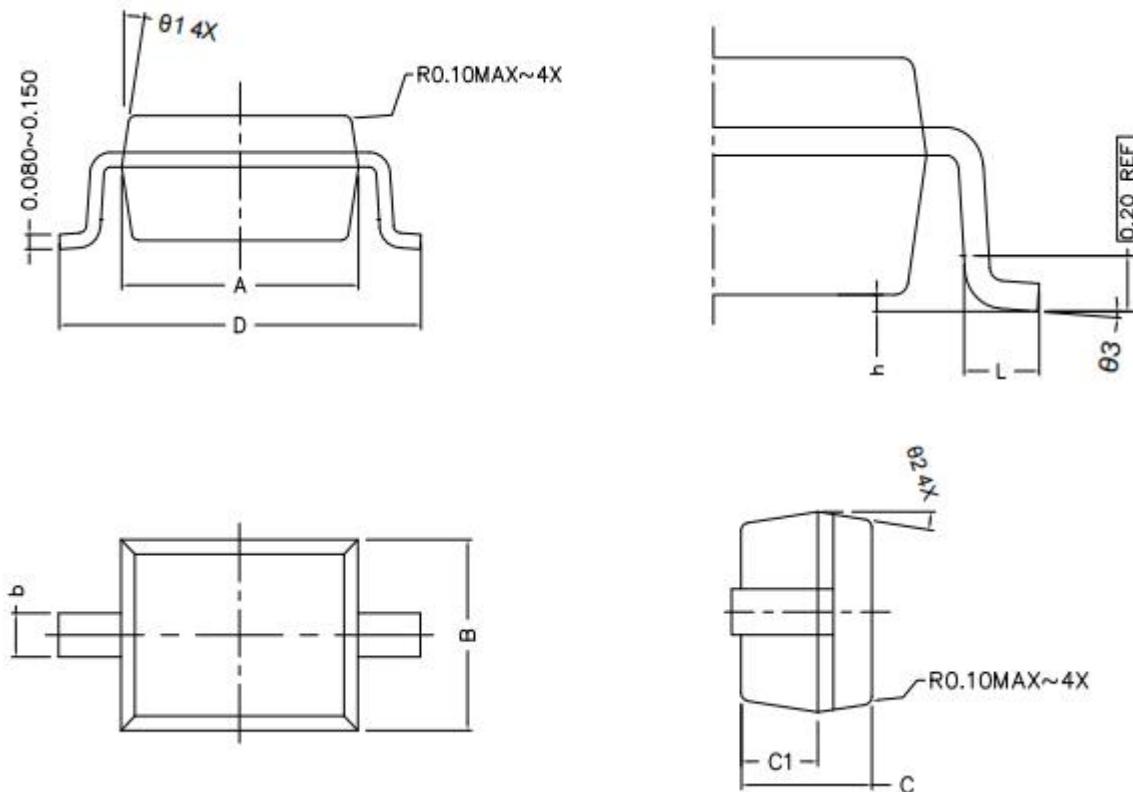


Fig. 3 Typ. Junction Capacitance vs Reverse Voltage

■ 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
Θ3	0°	8°	0°	8°