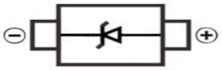
SOD-523 Schottky Barrier Diode 肖特基势垒二极管

■ Internal Configuration& Device Marking 内部结构与产品打标

Type 型号	SD103AWT	SD103BWT	SD103CWT
Pin 管脚			
Mark 打标	S4	S5	S6

■Absolute Maximum Ratings 最大额定值

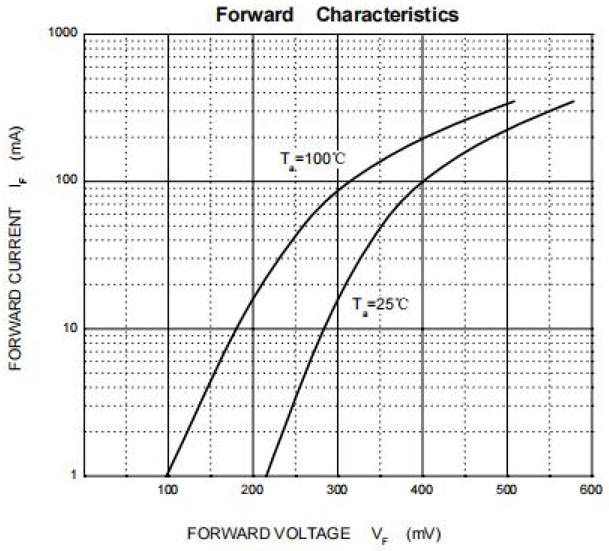
Characteristic 特性参数		Symbol 符号	Rat 额定值	Unit 单位
Reverse Voltage/ Repetitive Reverse Voltage 反向电压/重复反向电压	SD103AWT SD103BWT SD103CWT	V_R/V_{RRM}	40 30 20	V
Forward Work Current 正向工作电流		I_O	350	mA
Peak Forward Surge Current 正向峰值浪涌电流		I_{FSM}	2000	mA
Power dissipation 耗散功率		P_D(Ta=25℃)	150	mW
Thermal Resistance J-A 结到环境热阻		$R_{\theta JA}$	668	℃/W
Junction and Storage Temperature 结温和储藏温度		T_J,T_{stg}	-65to+125℃	

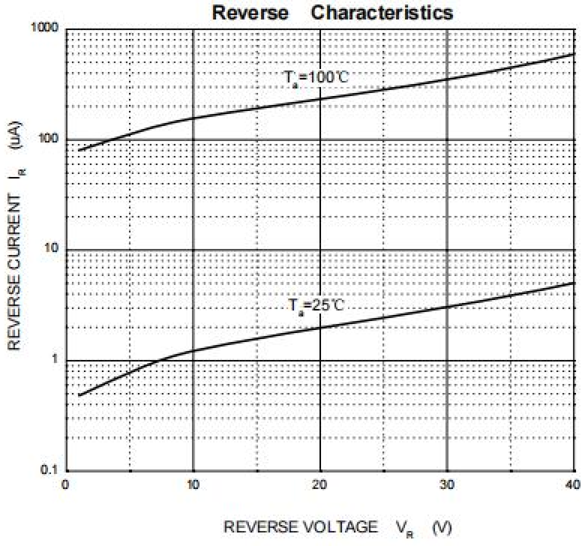
■Electrical Characteristics 电特性

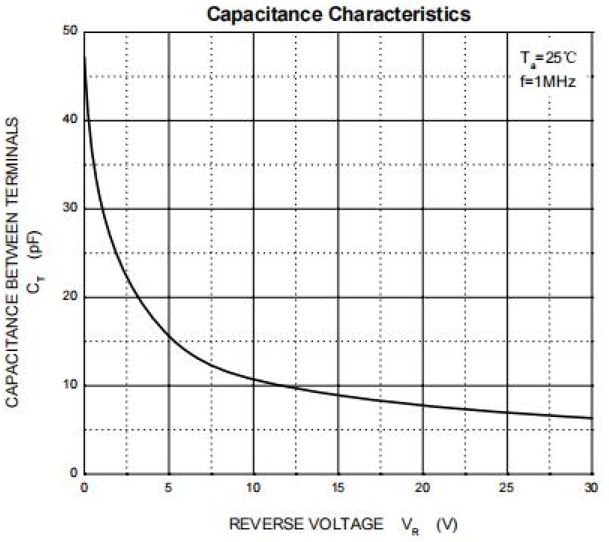
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

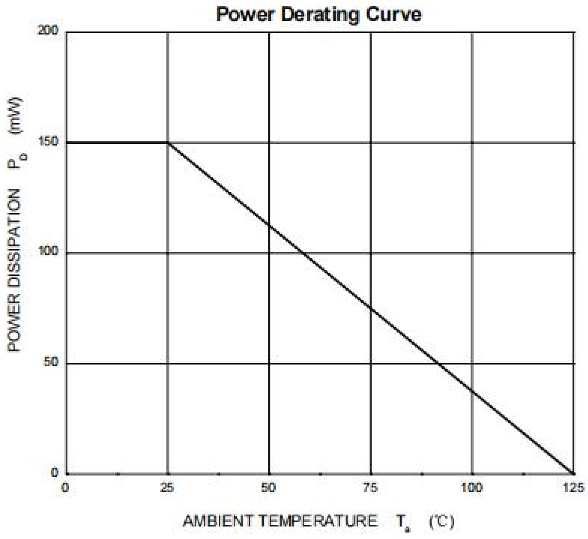
Characteristic 特性参数		Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压 (I_R=10μA)	SD103AWT SD103BWT SD103CWT	$V_{(BR)}$	40 30 20	—	V
Reverse Leakage Current(V_R=30V) 反向漏电流(V_R=20V) (V_R=10V)	SD103AWT SD103BWT SD103CWT	I_R	—	5 5 5	μA
Forward Voltage(I_F=20mA) 正向电压(I_F=200mA)		V_F	—	0.37 0.6	V
Diode Capacitance 二极管电容(V_R=0V, f=1MHz)		C_D	—	50	pF
Reverse Recovery Time 反向恢复时间		T_{rr}	—	10	nS

■Typical Characteristic Curve 典型特性曲线

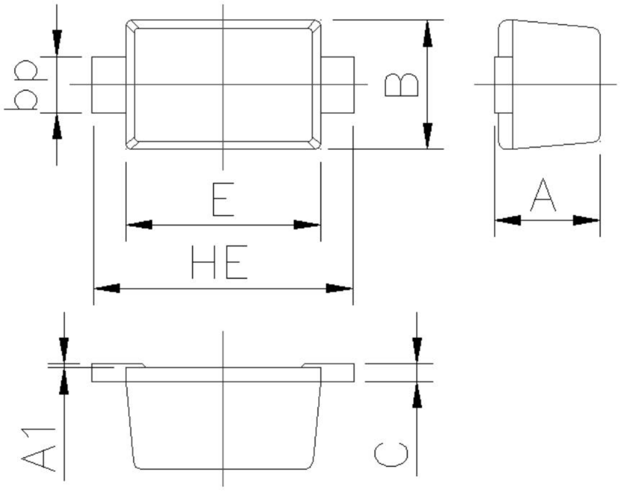








■Dimension 外形封装尺寸



Symbol	Dimension in Millimeters	
	Min	Max
A	0.60	0.70
A1	0	0.05
B	0.75	0.85
bp	0.25	0.40
C	0.09	0.15
E	1.15	1.25
HE	1.50	1.70