



型号: 1N4148WS

快速开关二极管 FAST SWITCHING DIODE

主要特性/Features

速度快 Speed is fast.

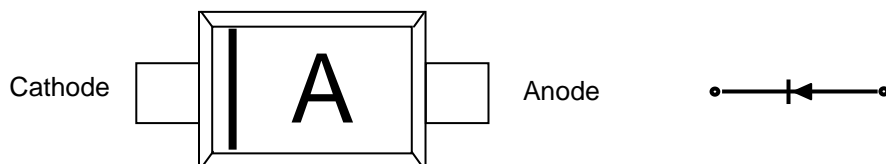
反向阻抗高 High reverse impedance

尺寸小, 适合各种有尺寸要求场合 Small size, suitable for various occasions with size requirements

应用/Application

高速开关电路 High speed switch circuit

印字/MARKING 等效电路/Equivalent Circuit





极限参数/Absolute maximum ratings(Ta=25°C)

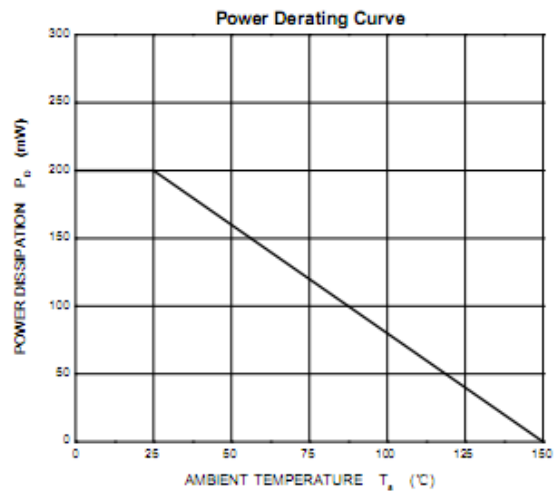
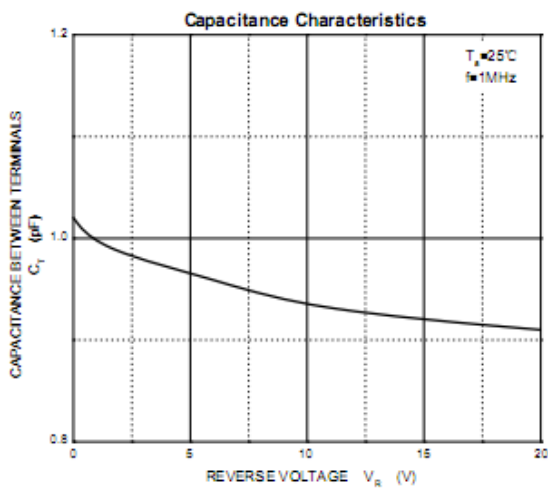
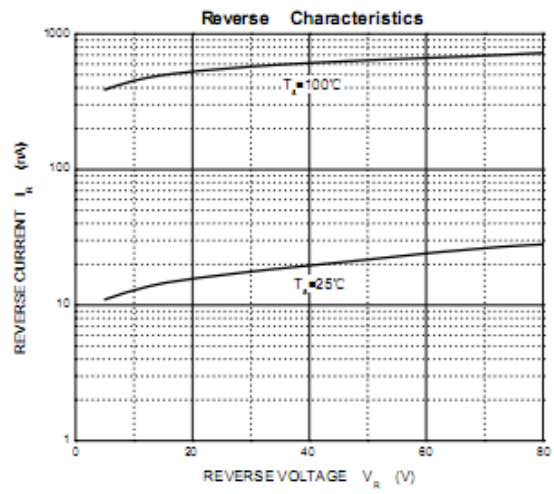
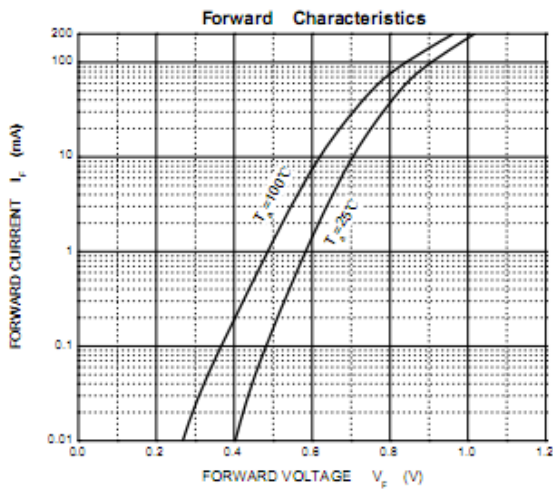
Parameter	Symbol	Value	Unit
反向峰值电压/Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
反向峰值电压/ Peak Reverse Voltage	V_{RRM}	75	V
反向工作峰值电压/Working Peak Reverse Voltage	V_{RWM}	75	V
直流阻断电压/DC Blocking Voltage	V_R	75	V
最大反向电压有效值/RMS Reverse Voltage	$V_{R(RMS)}$	53	V
正向连续电流/Forward Continuous Current	I_{FM}	300	mA
平均整流输出电流/Average Rectified Output Current	I_o	150	mA
正向瞬间峰值电流 @=1.0μS Peak Forward Surge Current @=1.0S	I_{FSM}	2 1	A
功率/ Power Dissipation	P_D	0.2	W
热阻/Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
结温/Junction Temperature	T_j	125	°C
储存温度/Storage Temperature	T_{stg}	-65 ~ 150	°C

电性能参数/Electrical characteristics (Ta=25°C)

Parameter	Symbol	Test condition	Max	Unit
正向电压/Forward Voltage	V_{F1}	$I_F=1mA$	0.715	V
	V_{F2}	$I_F=10mA$	0.855	V
	V_{F3}	$I_F=50mA$	1	V
	V_{F4}	$I_F=150mA$	1.25	V
反向漏电流/Reverse Current	I_{R1}	$V_R=75V$	1	μA
	I_{R2}	$V_R=20V$	25	nA
端电容/Capacitance Between Terminals	C_T	$V_R=0, f=1MHz$	2	pF
反向恢复时间/Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$	6	nS

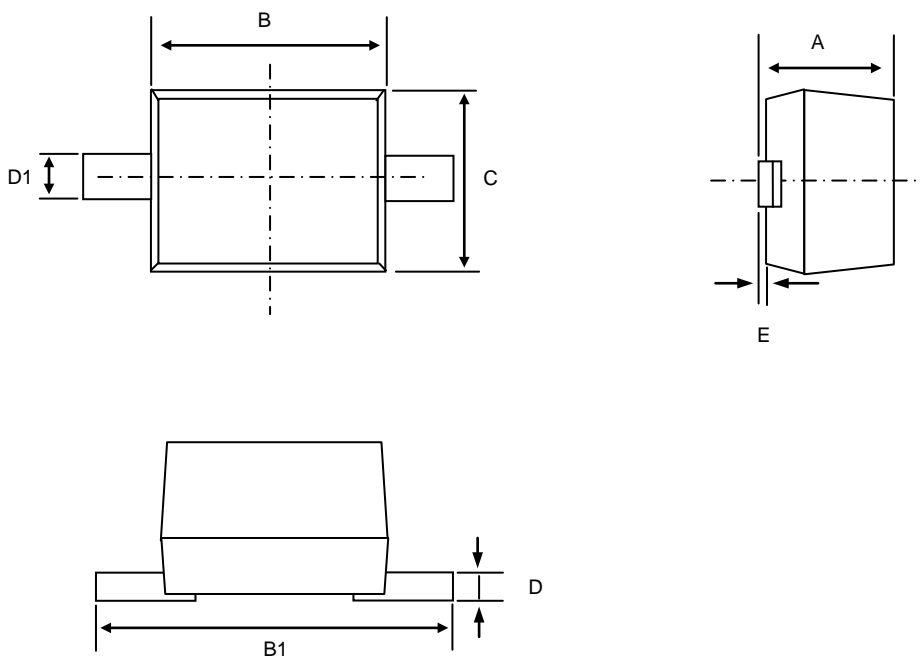


典型特性曲线图/Typical Characteristics





成品外观尺寸/SOD-323 Package Information



Symbol	Dim in mm		
	Min	Nor	Max
A	0.600	0.700	0.800
B	1.650	1.700	1.750
B1	2.250	2.600	2.750
C	1.250	1.300	1.350
D	0.100	0.110	0.120
D1	0.280	0.300	0.320
E	0.000	-	0.020