

SOD-323 封装二极管/SOD-323 Plastic-Encapsulate Diodes**BAV16WS/1N4148WS**  
(FAST SWITCHING DIODES)**特点/Features:**

速度快；  
反向阻抗高；  
尺寸小，适合各种有尺寸要求场合；

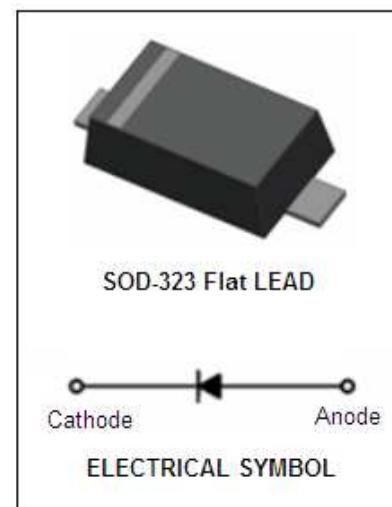
**用途/Applications:**

高速开关电路。

**印章/ Marking:**

BAV16WS: T6

1N4148WS: T4

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

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
反向峰值电压/Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
反向峰值电压/ Peak Reverse Voltage	V <sub>RRM</sub>	75	V
反向工作峰值电压/Working Peak Reverse Voltage	V <sub>RWM</sub>	75	V
直流阻断电压/DC Blocking Voltage	V <sub>R</sub>	75	V
最大反向电压有效值/RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
正向连续电流/Forward Continuous Current	I <sub>FM</sub>	300	mA
平均整流输出电流/Average Rectified Output Current	I <sub>o</sub>	150	mA
正向瞬间峰值电流/Peak Forward Surge Current	I <sub>FSM</sub>	2 (@=1.0μS) 1 (@=1.0S)	A
功率/ Power Dissipation	P <sub>D</sub>	0.2	W
热阻/Thermal Resistance Junction to Ambient Air	R <sub>θ JA</sub>	625	°C/W
结温/Junction Temperature	T <sub>j</sub>	125	°C
储存温度/Storage Temperature	T <sub>stg</sub>	-65~150	°C

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

参数/Parameter	符号	测试条件	最大值	单位
正向电压/Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> =1mA	0.715	V
	V <sub>F2</sub>	I <sub>F</sub> =10mA	0.855	V
	V <sub>F3</sub>	I <sub>F</sub> =50mA	1	V
	V <sub>F4</sub>	I <sub>F</sub> =150mA	1.25	V
反向漏电流/Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =75V	1	μ A
	I <sub>R2</sub>	V <sub>R</sub> =20V	25	nA
端电容/Capacitance Between Terminals	C <sub>T</sub>	V <sub>R</sub> =0, f=1MHz	2	pF
反向恢复时间/Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1 × I <sub>R</sub> , R <sub>L</sub> =100 Ω	6	nS

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### 典型特性曲线图/Typical Characteristics

