



SLS SEMICONDUCTOR (SHENZHEN) CO.,LTD.

SOD-123 封装二极管/SOD-123 Plastic-Encapsulate Diodes

BAT54W (SCHOTTKY DIODE)

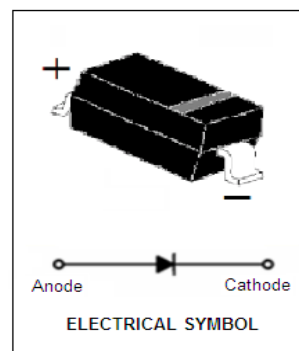
特点/Features :

- 正向导通电压低；
- 环保护结构提供瞬态保护；
- 极小的恢复时间；
- 适合的安装尺寸；

用途/Applications :

高速开关电路。

印章/ Marking: L9



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

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Working Peak	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Average Rectified Output Current	I_o	100	mA
Forward Continuous Current	I_{FM}	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Repetitive Peak Forward Current (@t ≤ 1S)	I_{FSM}	600	A
Power Dissipation	P_d	500	mW
Thermal Resistance Junction To Ambient	$R_{\theta JA}$	200	°C/mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55~125	°C

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

参数/Parameter	符号	测试条件	最小值	典型值	最大值	单位
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100 \mu A$	40			V
Forward Voltage	V_F	$I_F=0.1mA$			240	mV
		$I_F=1mA$			320	mV
		$I_F=10mA$			400	mV
		$I_F=30mA$			500	mV
		$I_F=100mA$			1000	mV
Reverse Current	I_R	$V_R=25V$			2.0	μA
Capacitance Between Terminals	C_T	$V_R=1V, f=1.0MHz$			10	pF
Reverse Recovery Time	t_{rr}	$R_L=100 \Omega, I_F=10mA, I_R=10mA \text{ to } 1mA$			5.0	nS