



SLS SEMICONDUCTOR (SHENZHEN) CO.,LTD.

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

BAT42W&BAT43W (SCHOTTKY DIODE)

特点/Features :

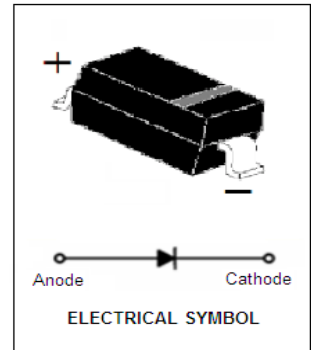
正向导通电压低 ;
极小的导通与恢复时间 ;
适合表面安装 ;

用途/Applications :

高速开关电路。

印章/ Marking: BAT42W: S7

BAT43W: S8



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
Forward Continuous Current	I_{FM}	200	mA
Repetitive Peak Forward Current (@t≤1S)	I_{FSM}	500	mA
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}	-55~150	°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	$V_{(BR)R}$	$I_R=10 \mu A$	30			V
Forward Voltage	All Types	$I_F=200mA$			1.0	V
	BAT42W	$I_F=10mA$			0.4	V
	BAT42W	$I_F=50mA$			0.65	V
	BAT43W	$I_F=2mA$	0.26		0.33	V
	BAT43W	$I_F=15mA$			0.45	V
Reverse Current	I_{RM}	$V_R=25V$			0.5	μA
Capacitance Between Terminals	C_T	$V_R=0V, f=1.0MHz$			10	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100 \Omega$			5	nS



典型特性曲线图/Typical Characteristics

