



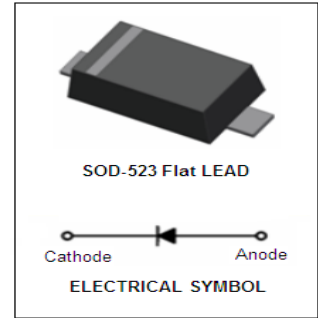
SLS SEMICONDUCTOR (SHENZHEN) CO.,LTD.

**SOD-523 封装二极管/SOD-523 Plastic-Encapsulate Diodes**

**BAT54X (SCHOTTKY BARRIER DIODE)**

**特点/Features :**

- Extremely Fast Switching Speed ;
- Low Forward Voltage ;



**印章/ Marking: JV**

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

Parameter	Symbol	Limit	Unit
Peak Reverse Voltage	$V_{RM}$	30	V
DC Reverse Voltage	$V_R$	21	V
Average Rectified output current	$I_o$	0.1	A
Forward Continuous Current	$I_F$	0.2	A
Repetitive Peak Forward Current	$I_{FRM}$	0.3	A
Forward Surge Current	$I_{FSM}$	0.6	A
Power dissipation	$P_D$	200	mW
Thermal Resistance junction to ambient	$R_{\theta JA}$	625	°C/mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100 \mu A$	30			V
Forward Voltage	$V_{F1}$	$I_F=0.1mA$			0.24	V
	$V_{F2}$	$I_F=1.0mA$			0.32	V
	$V_{F3}$	$I_F=10mA$			0.40	V
	$V_{F4}$	$I_F=30mA$			0.50	V
	$V_{F5}$	$I_F=100mA$			1.00	V
Reverse Current	$I_R$	$V_R=25V$			2.0	$\mu A$
Reverse Recovery Time	$T_{rr}$	$I_F=10mA,$ $I_R=10mA$ to $1mA, R_L=100 \Omega$			5.0	nS
Capacitance Between Terminals	$C_T$	$V_R=1V, f=1.0MHz$		2		pF



### 典型特性曲线图/Typical Characteristics

