



深圳市三联盛科技股份有限公司
SHENZHEN SLS TECHNOLOGY CO.,LTD.

股票代码 871699

SANLIANSHENG
三联盛股份

SOT-23 Plastic-Encapsulate

型号 : BAT54&BAT54A&BAT54C&BAT54S

SCHOTTKY DIODES

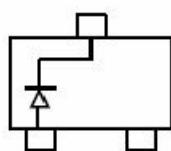
主要特性/Features

速度快，导通电压低 Fast speed, low on voltage

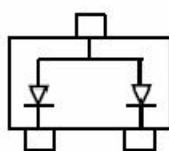
应用/Application

高速开关电路 High speed switch circuit

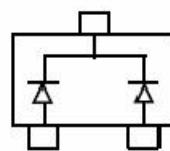
电路和印章/ Circuit&Marking



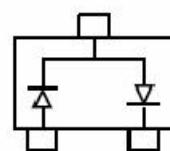
BAT54 MARKING: KL1



BAT54A MARKING: KL2



BAT54C MARKING: KL3



BAT54S MARKING: KL4



极限参数/Absolute Maximum Ratings(TA=25°Cunless otherwise noted)

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
反向峰值电压/Peak Repetitive Peak Reverse Voltage	V_{RRM}		
反向工作电压/Working Peak Reverse Voltage	V_{RWM}	30	V
直流阻断电压/DC Blocking Voltage	V_R		
正向电流/Forward Continuous Current	I_F	200	mA
功率/ Power Dissipation	P_D	0.225	W
储存温度/Storage Temperature	T_{Stg}	-55 ~ 150	°C

电性能参数/Electrical Characteristics (TA=25°Cunless otherwise noted)

参数/Parameter	符号	测试条件	最小值	最大值	单位
反向击穿电压/Reverse Breakdown Voltage	$V_{R(BR)}$	$I_R=100\mu A$	30		V
正向电压/Forward Voltage	V_{F1}	$I_F=0.1mA$		0.24	V
	V_{F2}	$I_F=1mA$		0.32	V
	V_{F3}	$I_F=10mA$		0.4	V
	V_{F4}	$I_F=30mA$		0.5	V
	V_{F5}	$I_F=100mA$		1	V
反向漏电流/Reverse Current	I_R	$V_R=25V$		2	μA
端电容/Capacitance Between Terminals	C_T	$V_R=1V, f=1MHz$		10	pF
反向恢复时间/Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R,$ $R_L=100\Omega$		5	nS



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典型特性曲线图/Typical Characteristics

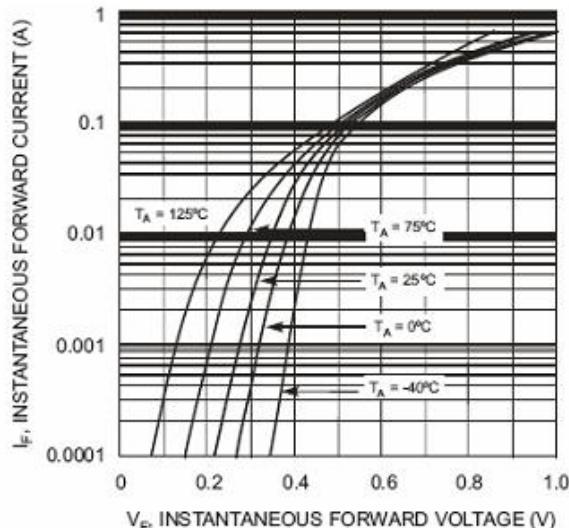


Fig. 1 Forward Characteristics

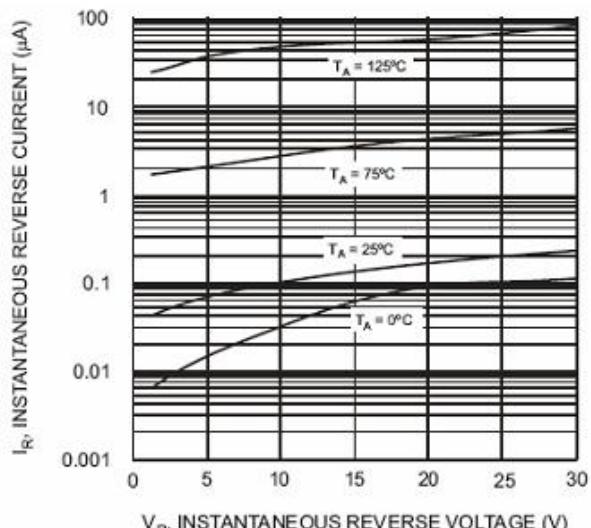


Fig. 2 Typical Reverse Characteristics

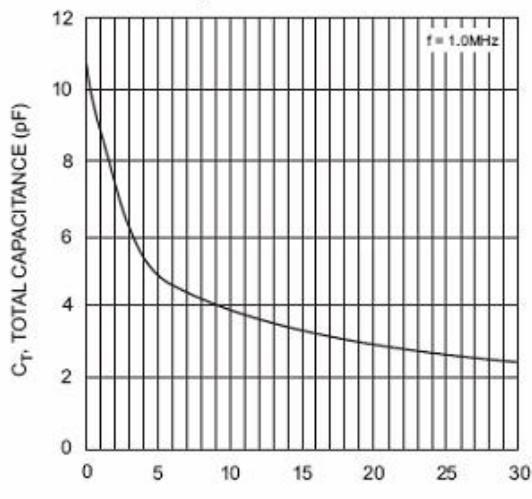


Fig. 3 Typical Capacitance vs. Reverse Voltage

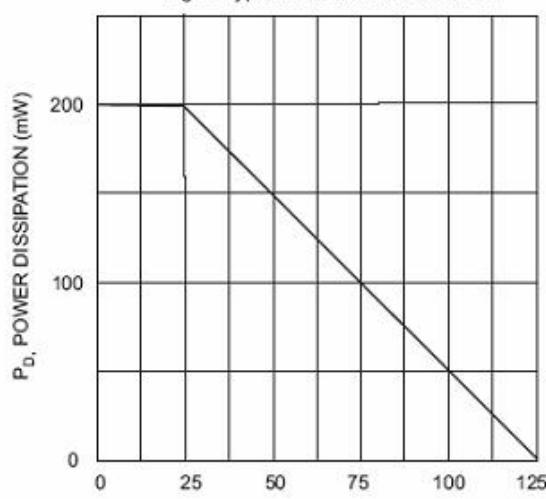


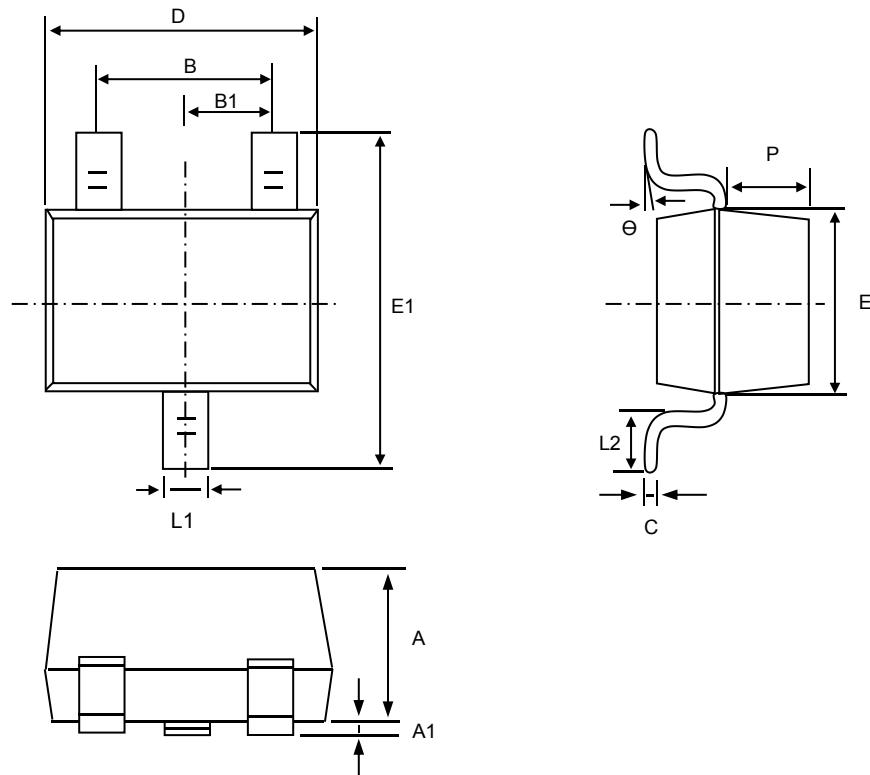
Fig. 4 Power Derating Curve



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成品外观尺寸/SOT-23 Package Information



Symbol	Dim in mm		
	Min	Nor	Max
A	0.900	1.000	1.100
A1	0.000	0.050	0.100
L1	0.350	0.400	0.500
C	0.100	0.110	0.120
D	2.800	2.900	3.000
E	1.250	1.300	1.350
E1	2.250	2.400	2.550
B	1.800	1.900	2.000
B1	0.950TPY.		
L2	0.200	0.350	0.450
P	0.550	0.575	0.600