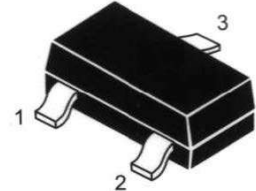


ABSOLUTE MAXIMUM RATINGS at Ta=25°C

Characteristic	Symbol	Rating	Unit
Reverse Voltage	V_R	30	Vdc
Forward Power Dissipation	P_F	200	mW
Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55-150	°C

Package:SOT-23

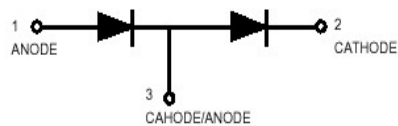


ELECTRICAL CHARACTERISTICS at Ta=25°C

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage($I_R=10\mu A$)	$V_{(BR)R}$	30			Volts
Reverse Leakage($V_R=25V$)	I_R		0.5	2.0	μA
Total Capacitance($V_R=1.0V$ $f=1.0MHz$)	C_T		7.6	10	PF
Forward Voltage $I_F=0.1mA$ $I_F=1.0mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$	V_F		0.22 0.29 0.35 0.41 0.52	0.24 0.32 0.40 0.5 1.0	Vdc
Reverse Recovery Time ($I_F=I_R=10mA$, $I_{R(REC)}=1.0mA$)	T_{rr}			5.0	ns

Note:FR-5=1.0 × 0.75 × 0.062in

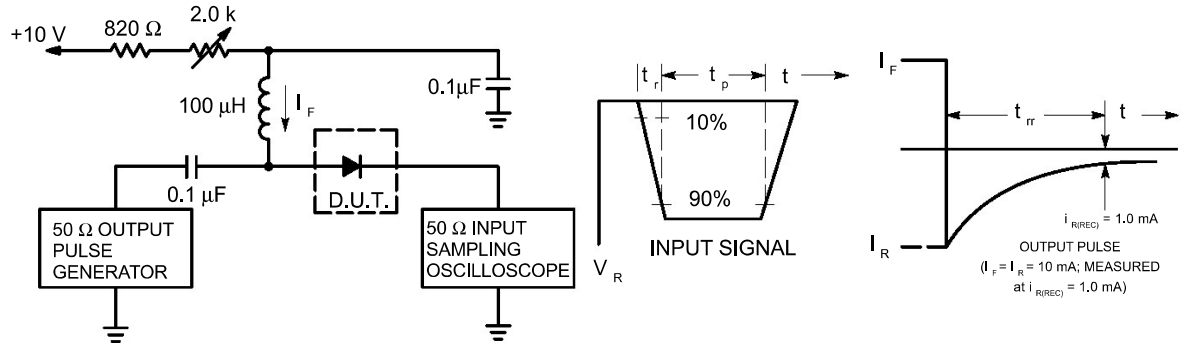
INTERNAL CONFIGURATION AND DVICE MARKING:



BAT54S(LD3)



BAT54S



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10mA.
2. Input pulse is adjusted so $I_{R(peak)}$ is equal to 10mA.
3. $t_p \gg t_{rr}$

Figure 1. Recovery Time Equivalent Test Circuit

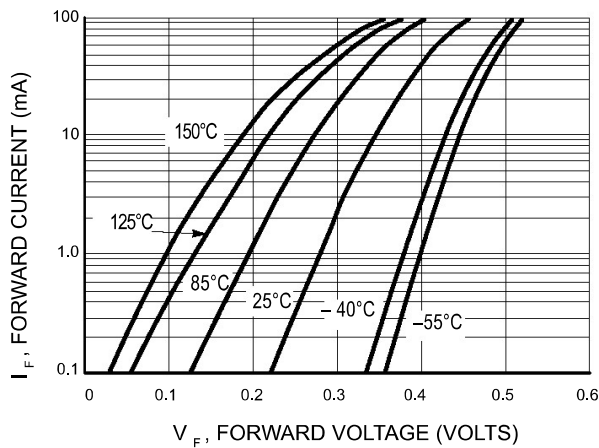


Figure 2. Forward Voltage

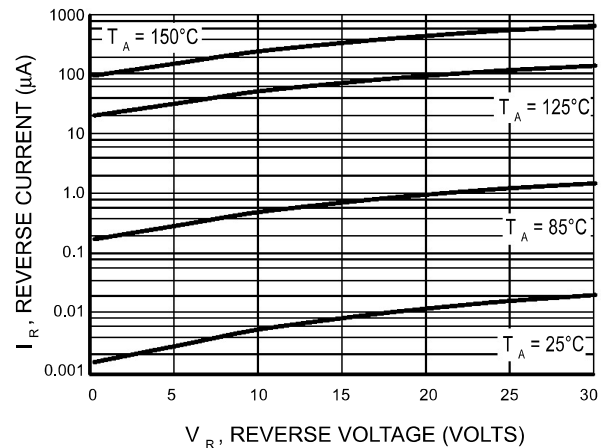


Figure 3. Leakage Current

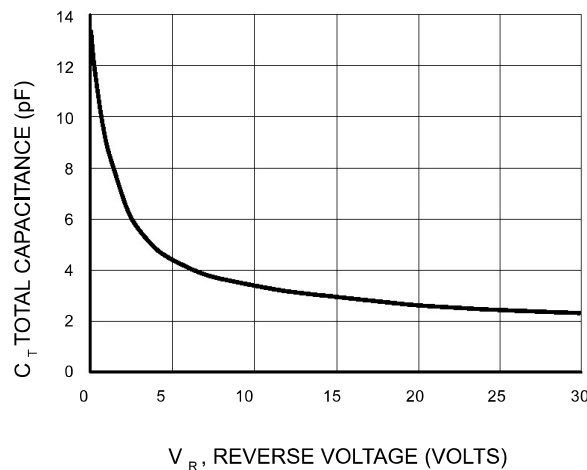
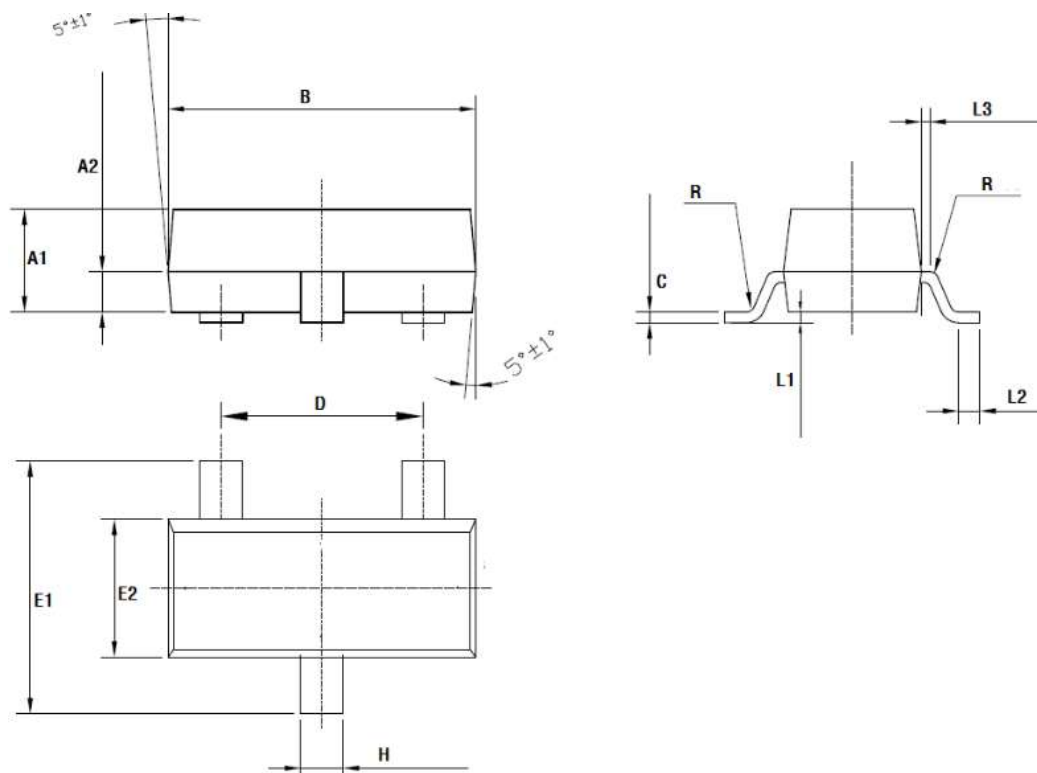
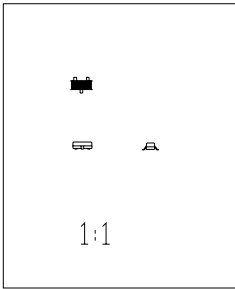


Figure 4. Total Capacitance

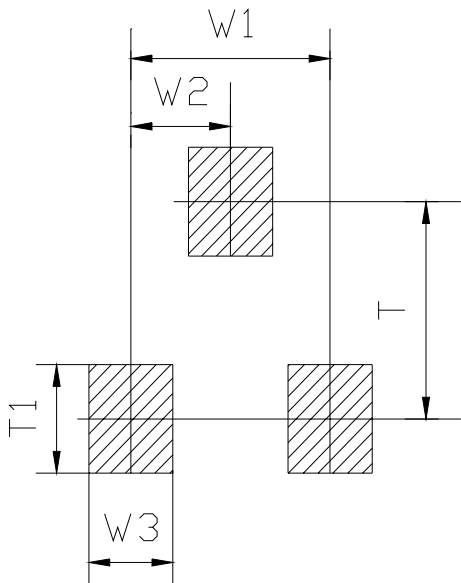


Symbol	Dimensions in Millimeters			内部结构 STYLS	管脚 PIN		
	Min	Nominal	Max		1 脚	2 脚	3 脚
A1	0.900	0.950	1.000	6	基极 BASE	发射极 EMITTER	集电极 COLLCTOR
A2	0.350	0.380	0.410				
B	2.800	2.900	3.000	8	阳极 ANODE	不连接 NO- CONNECTION	阴极 CATHODE
C	0.080	0.100	0.150				
D	1.800	1.900	2.000	9	阳极 ANODE	阳极 ANODE	阴极 CATHODE
E1	2.200	2.400	2.600				
E2	1.200	1.300	1.400	11	阳极 ANODE	阴极 CATHODE	阳极-阴极 ANODE-CATHODE
H	0.300	0.400	0.500				
L1	0.000		0.100	12	阴极 CATHODE	阴极 CATHODE	阳极 ANODE
L2	0.200						
L3	0.030	0.080	0.130	18	不连接 NO- CONNECTION	阴极 CATHODE	阳极 ANODE
R	0.080TYP						
				19	阴极 CATHODE	阳极 ANODE	阴极-阳极 CATHODE-ANODE



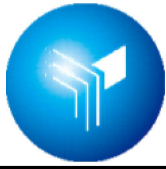
OUTSIDE

Scale 1:1 on letter size paper



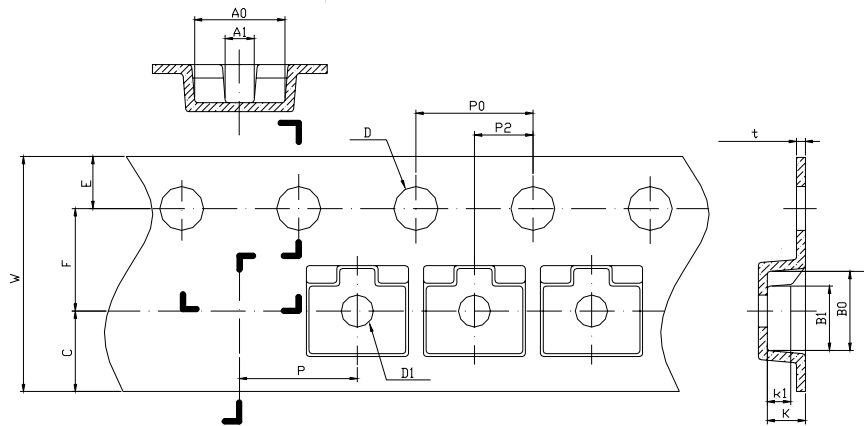
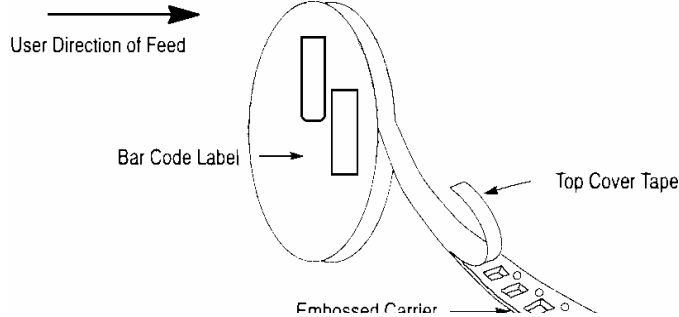
FOOTPRINTS FOR SOLDERING

Symbol	Dimensions in Millimeters	Dimensions in Inches
	Nominal	Nominal
W1	1.900	0.0748
W2	0.950	0.0374
W3	0.800	0.0315
T	2.000	0.0787
T1	1.000	0.0394



SOT-23 TAPE AND REEL DATA

SOT-23 PACKAGING:



Symbol	Dimensions in Millimeters			Dimensions in Inches		
	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
A0	3.000	3.150	3.300	0.1181	0.1240	0.1299
A1	0.950	1.100	1.250	0.0374	0.0433	0.0492
B0	2.670	2.770	2.870	0.1051	0.1090	0.1130
B1	2.000	2.150	2.300	0.0787	0.0846	0.0906
C	2.750TYP			0.1083TYP		
D	1.350	1.500	1.650	0.0531	0.0591	0.0650
D1	0.900	1.050	1.150	0.0354	0.0394	0.0453
E	1.650	1.750	1.850	0.0650	0.0689	0.0728
F	3.400	3.500	3.600	0.1339	0.1378	0.1417
K	1.020	1.220	1.420	0.0402	0.0480	0.0559
K1	0.850TYP			0.03346TYP		
P	3.900	4.000	4.100	0.1535	0.1575	0.1614
P0	3.900	4.000	4.100	0.1535	0.1575	0.1614
P010	39.800	40.000	40.200	1.5669	1.5748	1.5827
P2	1.950	2.000	2.050	0.0768	0.0787	0.0807
t	0.190	0.210	0.230	0.0075	0.0083	0.0098
W	7.900	8.000	8.300	0.3110	0.3150	0.3268