



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Diodes

BAT54/A/C/S SCHOTTKY DIODE

FEATURES

Power dissipation

P_D : 200 mW ($T_{amb}=25$)

Forward Current

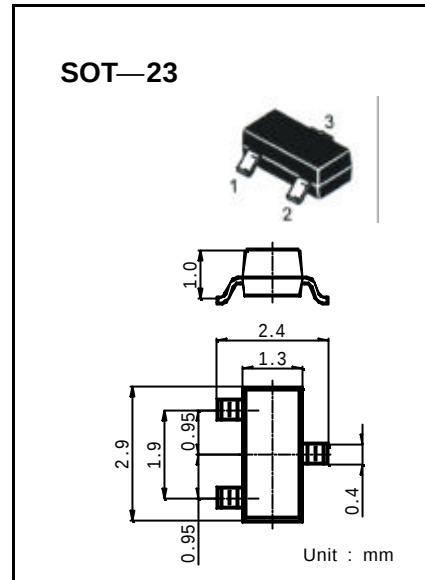
I_F : 200 mA

Reverse Voltage

V_R : 30 V

Operating and storage junction temperature range

T_J , T_{stg} : -55 to +150

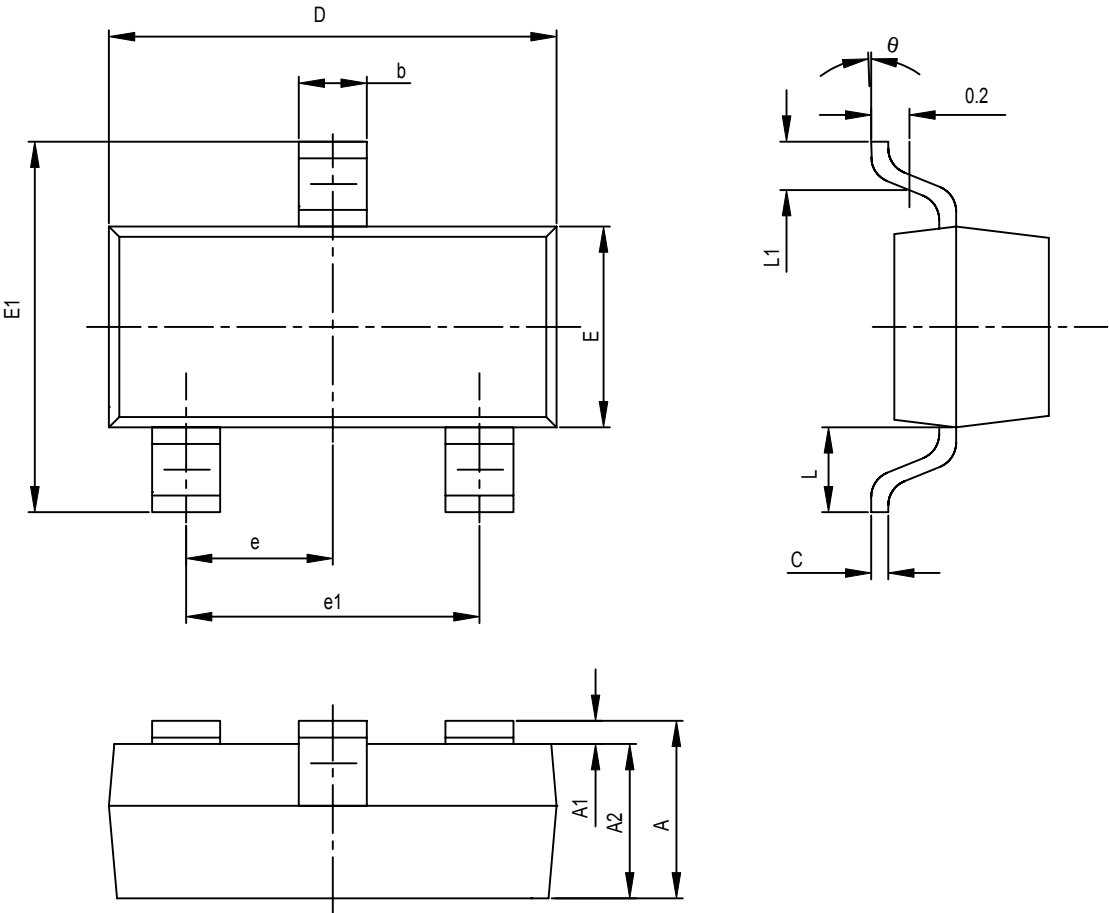


BAT54 Marking:KL1 BAT54A Marking:KL2 BAT54C Marking:KL3 BAT54S Marking:KL4

ELECTRICAL CHARACTERISTICS ($T_{amb}=25$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	30		V
Reverse voltage leakage current	I_R	$V_R=25V$		2	μA
Forward voltage	V_F	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$		240 320 400 500 1000	mV
Diode capacitance	C_D	$V_R=1V$ $f=1MHz$		10	pF
Reverse recovery time	t_{rr}	$I_F=10mA$ through $I_R=10mA$ to $I_R=1.0mA$ $R_C=100\Omega$		5	nS

SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TPY		0.037TPY	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°