

SOT -23 Plastic Encapsulate Diodes

BAV99LT1

SWITCHING DIODE

FEATURES

Power dissipation

P_D : 225 mW ($T_{amb}=25\text{ }^{\circ}\text{C}$)

Forward Current

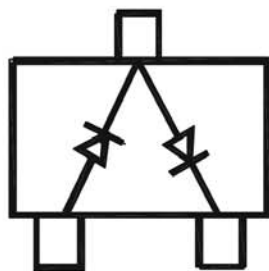
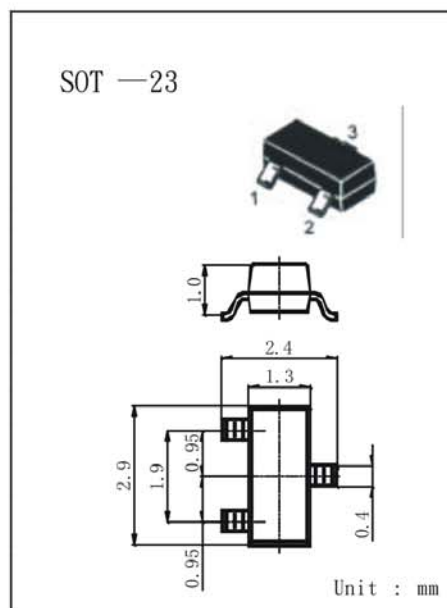
I_F : 215 mA

Reverse Voltage

V_R : 70 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$

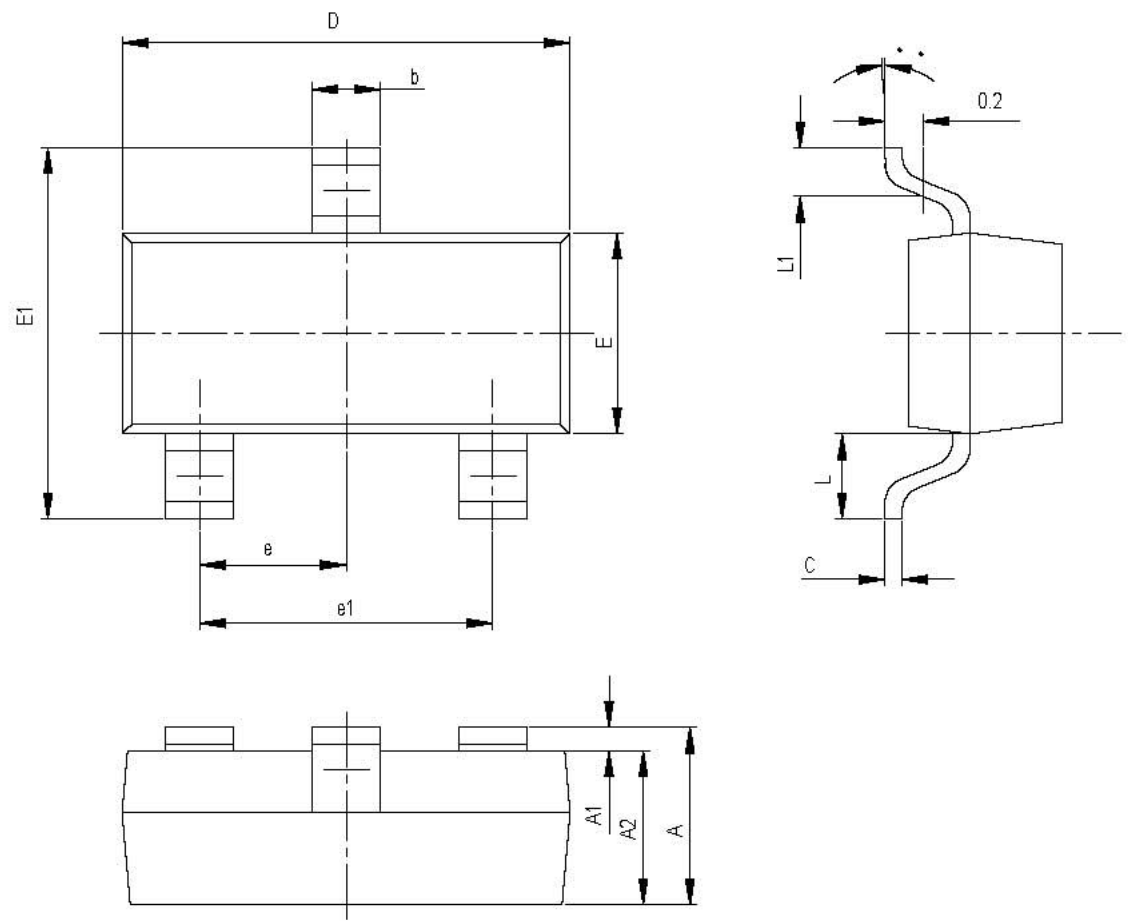


Marking A7

ELECTRICAL CHARACTERISTICS ICS ($T_{amb}=25\text{ }^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\text{ }\mu\text{A}$	70		V
Reverse voltage leakage current	I_R	$V_R=70\text{V}$		2.5	μA
Forward voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$		715 855 1000 1250	mV
Diode capacitance	C_D	$V_R=0\text{V}$ $f=1\text{MHz}$		1.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}$ $V_R=5\text{V}$ $R_C=100\text{ }\Omega$		6	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°