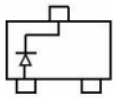
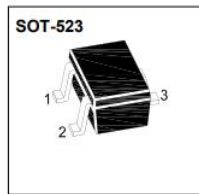
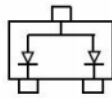


FEATURES

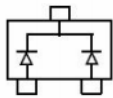
Extremely Fast Switching Speed



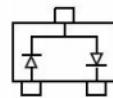
BAT54T MARKING: KL1



BAT54AT MARKING: KL2

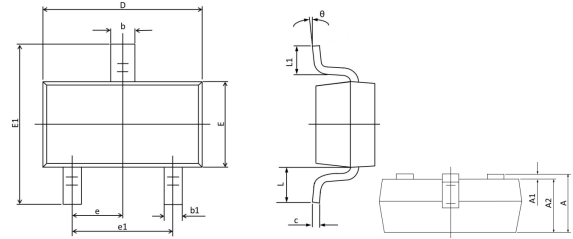


BAT54CT MARKING: KL3



BAT54ST MARKING: KL4

SOT-523



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	MAX	MIN	MAX	MIN
A	0.900	0.700	0.035	0.028
A1	0.100	0.000	0.004	0.000
A2	0.800	0.700	0.031	0.028
b	0.350	0.250	0.014	0.010
b1	0.250	0.150	0.010	0.006
c	0.200	0.100	0.008	0.004
D	1.750	1.500	0.069	0.059
E	0.900	0.700	0.035	0.028
E1	1.750	1.400	0.069	0.055
e	0.5TYP.		0.02TYP.	
e1	1.100	0.900	0.043	0.035
L	0.460	0.300	0.018	0.012
L1	0.460	0.260	0.018	0.010
θ	8°	0°	8°	0°

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Forward Surge Current @ $t < 1.0s$	I_{FSM}	600	mA
Power Dissipation	P_d	150	mW
Thermal Resistance, Junction to Ambient	$R_{θJA}$	833	°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +125	°C

BAT54T/AT/CT/ST

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _{(BR)R}	30			V	I _R =100μA
Forward voltage	V _{F1}			0.24	V	I _F =0.1mA
	V _{F2}			0.32	V	I _F =1mA
	V _{F3}			0.40	V	I _F =10mA
	V _{F4}			0.50	V	I _F =30mA
	V _{F5}			1	V	I _F =100mA
Reverse current	I _R			2	μA	V _R =25V
Diode Capacitance	C _D			10	pF	V _R =1V, f=1MHz
Reverse Recovery Time	t _{rr}			5	nS	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

RATING AND CHARACTERISTIC CURVES (BAT54T/AT/CT/ST)

