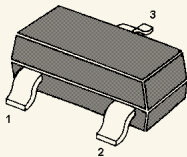
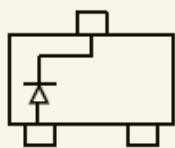


SCHOTTKY DIODES

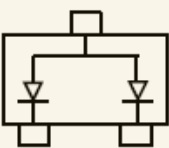
FEATURES
Extremely Fast Switching Speed



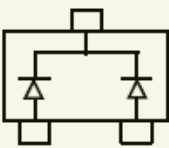
SOT-23



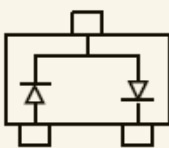
BAT54 MARKING: KL1



BAT54A MARKING: KL2



BAT54C MARKING: KL3



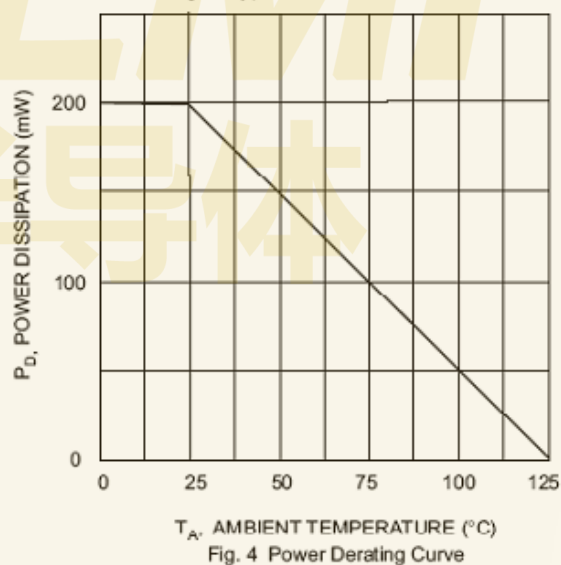
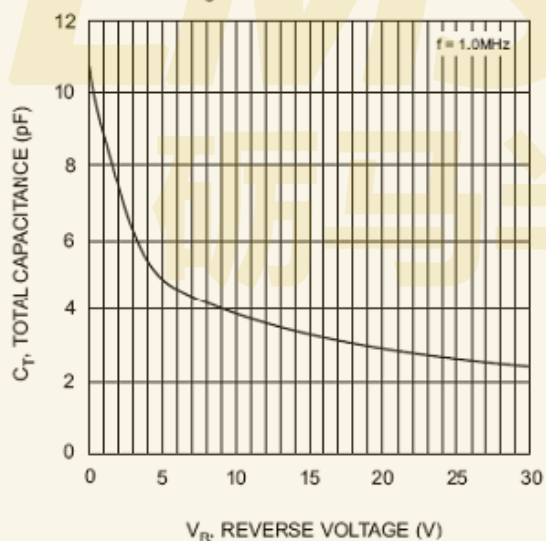
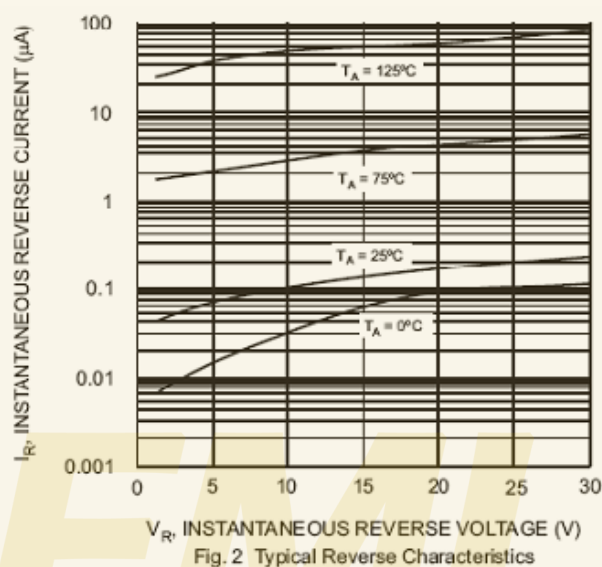
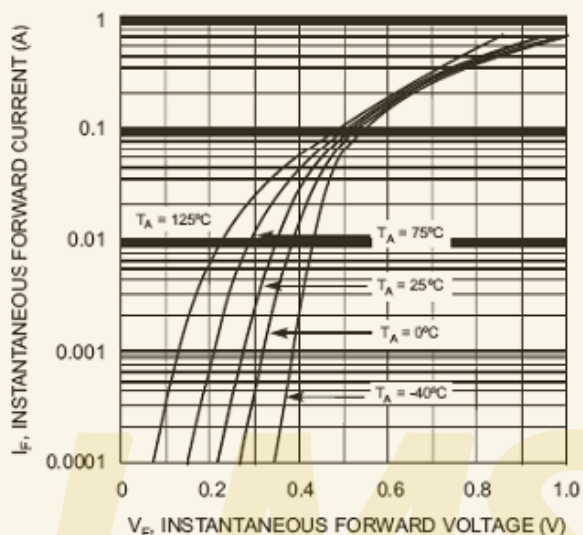
BAT54S MARKING: KL4

Maximum Ratings @T_A=25°C

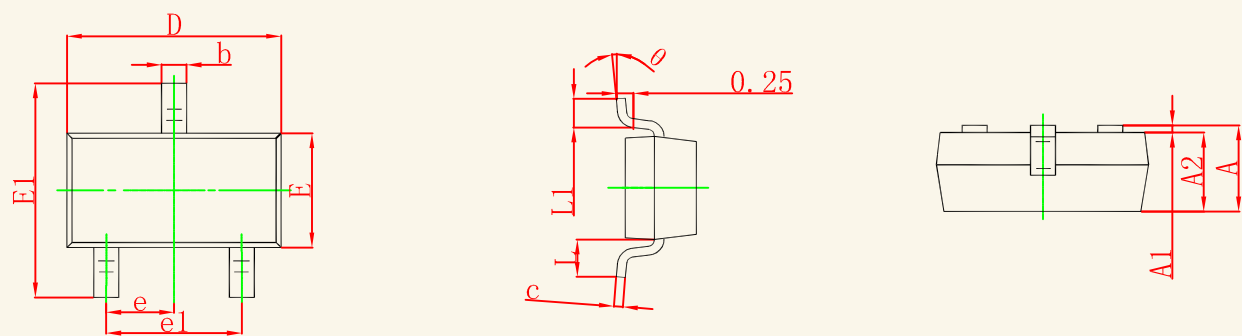
Parameter	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	V _R RM	30	V
Working Peak Reverse Voltage	V _R WM		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _F M	200	mA
Power Dissipation	P _D	200	mW
Storage temperature	T _{STG}	-55-150	°C

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			15	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

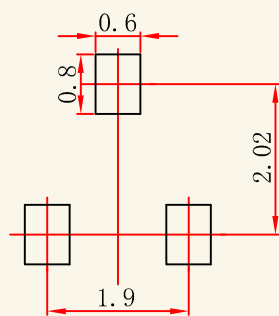


SOT-23 Package Outline Dimensions



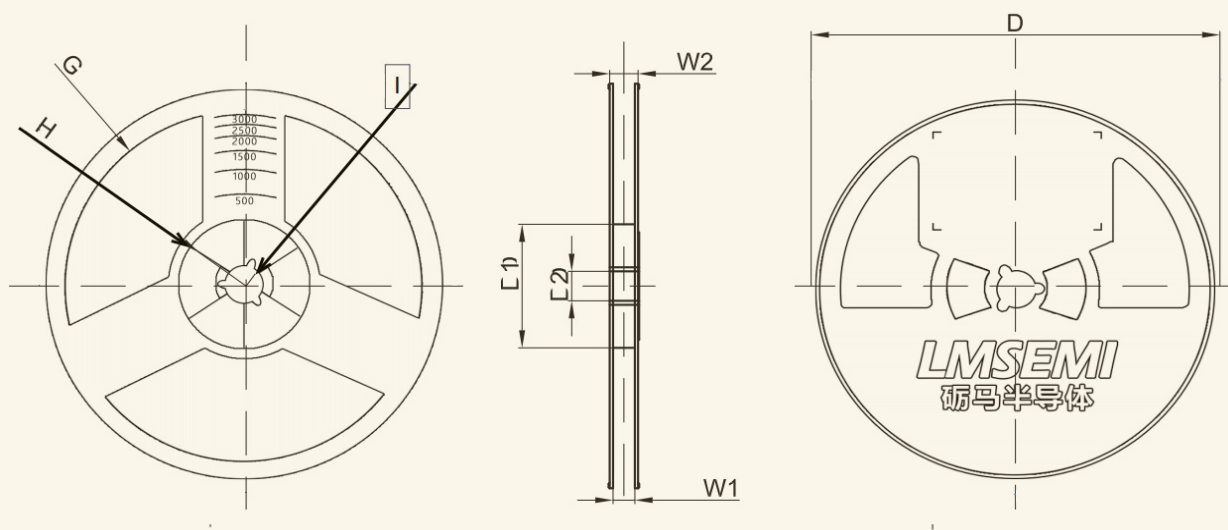
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.	1.	0.	0.045
A1	9000.	1500.	0350.	0.004
A2	0000.	1001.	0000.	0.041
b	9000.	0500.	0350.	0.020
c	3000.	5000.	0120.	0.006
D	0802.	1503.	0030.	0.118
E	8001.	0001.	1100.	0.055
E1	2002.	4002.	0470.	0.100
e	0.950 TYP		0.037 TYP	
e1	2501.	5502.	0890.	0.079
L	0.550 REF		0.022 REF	
L1	8000.	0000.	0710.	0.020
θ			8°	
	300	500	012	
	0°	8°	0°	

SOT-23 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

SOT-23 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	183×126×183	180,000 pcs	395×380×200	

NOTICE

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