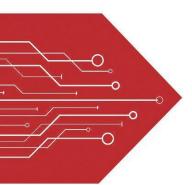
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com









SOT-23

FEATURES

Extremely Fast Switching Speed



BAT54-7-MS MARKING: KL1



BAT54A-7-MS MARKING: KL2



BAT54C-7-MS MARKING: KL3



BAT54S-7-MS MARKING: KL4

Maximum Ratings @T_A=25℃

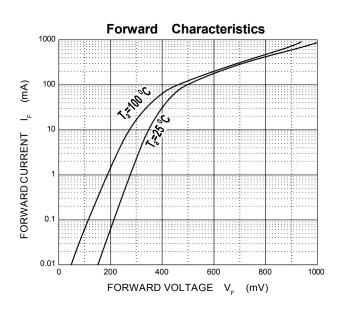
Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	30	V
	VR	200	
Forward Continuous Current	I _{FM}	200	mA
Power Dissipation	P _D	200	mW
Storage temperature	T _{STG}	-55-150	°C

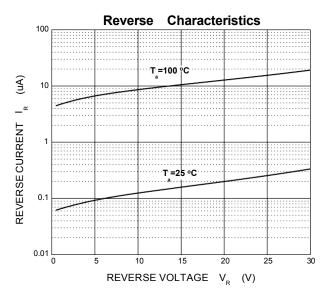
Electrical Characteristics @T_A=25°C

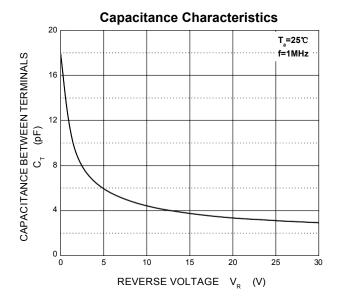
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V (BR)R	30			V	IR=100µA
	V _{F1}			0.24	V	I _F =0.1mA
Forward voltage	V _{F2}			0.32	V	I _F =1mA
	V _{F3}			0.40	V	I _F =10mA
	V _{F4}			0.50	V	I⊧=30mA
	V _{F5}			1	V	I _F =100mA
Reverse current	I _R			2	μΑ	V _R =25V
Diode Capacitance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

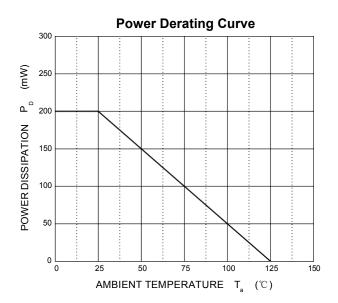


Typical Characteristics







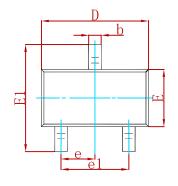


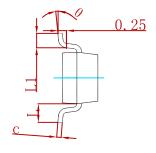


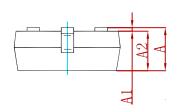






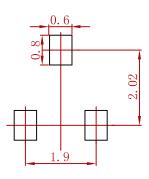






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950) TYP	0.037	7 TYP	
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



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

REEL SPECIFICATION

P/N	PKG	QTY
BAT54/A/C/S-7-MS	SOT-23	3000

Semiconductor

Compiance

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