MSKSEMI 美森科













FSD

TVS

TSS

MOV

GDT

PIFD

BAT54WS

Product specification

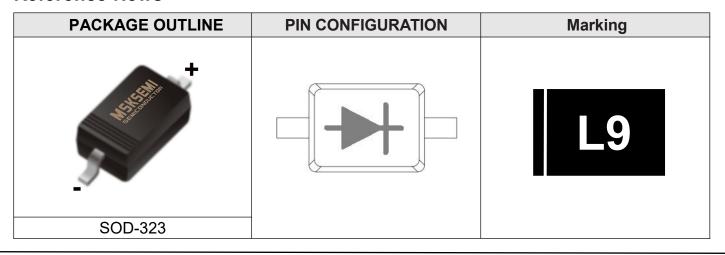




FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage

Reference News



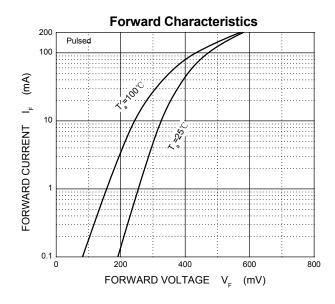
Maximum Ratings @Ta=25℃

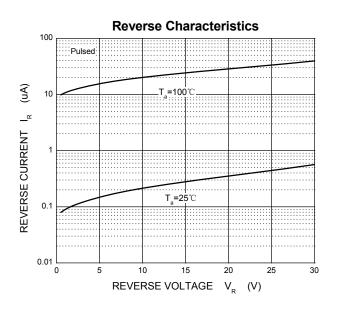
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	30	V
DC Blocking Voltage	V _R	21	V
Average Rectified Output Current	lo	100	mA
Forward Continuous Current	l F	200	mA
Repetitive Peak Forward Current	I _{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	600	mA
Power Dissipation	Po	200	mW
Thermal Resistance Junction to Ambient	R _θ JA	500	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	℃
Storage Temperature Range	T _{STG}	-55 ~ +150	$^{\circ}$

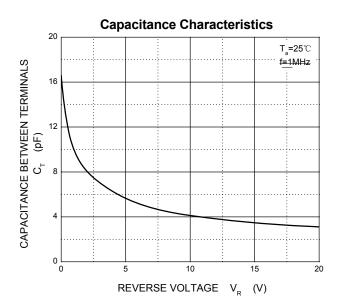
Electrical Characteristics @Ta=25℃

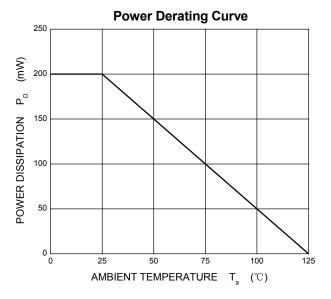
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse breakdown voltage	V (BR)	l _R =100μA	30			V
	V _{F1}	l⊧=0.1mA			240	mV
	V _{F2}	l⊧=1.0mA			320	mV
Forward voltage	V _{F3}	l⊧=10mA			400	mV
_	V _{F4}	l⊧=30mA			500	mV
	V _{F5}	l⊧=100mA			1000	mV
Reverse current	I _R	V _R =25V			2.0	uA
Reverse recovery time	t _{rr}	I_F =10mA, I_R =10mAto 1mA , R_L =100 Ω			5.0	ns
Capacitance between terminals	Ст	V _R =1V,f=1MHz			10	pF





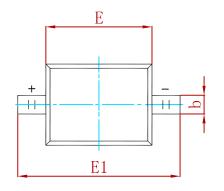


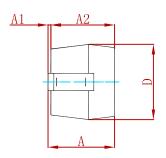


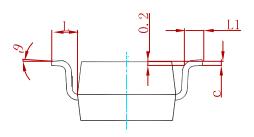




PACKAGE MECHANICAL DATA

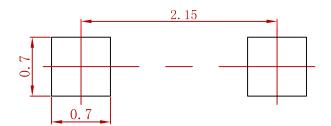






Cymahal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 REF.		0.019 REF.		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

Suggested Pad Layout



- Note:
 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
BAT54WS	SOD-323	3000



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