MSKSEMI 美森科













ESD

TSS

MOV

GDT

PLED

BAT42WS~BAT43WS

Product specification





FEATURES

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally Suited for Automatic Insertion

Reference News

PACKAGE OUTLINE	PIN CONFIGURATION	BAT42WS	BAT42WS	
		S7	S8	
SOD-323		MARKING:S7	MARKING:S8	

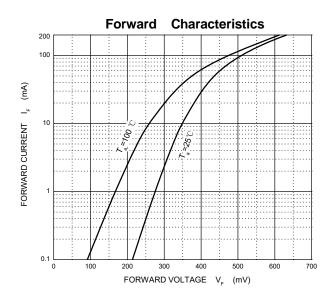
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

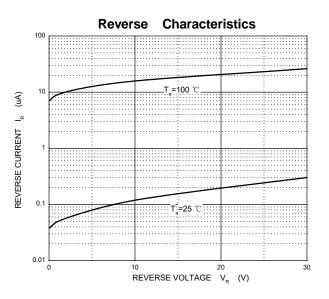
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	21	V
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	IFSM	4.0	А
Power Dissipation	Po	200	mW
Thermal Resistance Junction to Ambient	Reja	500	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	℃

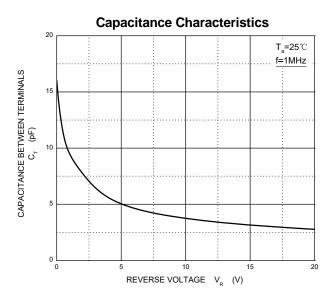
Electrical Ratings @Ta=25℃

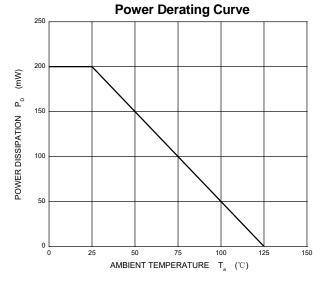
Parameter		Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdow	n voltage	V (BR)	30			V	l _R =10µA
Forward voltage	BothTypes	V _F			1.0	V	I _F =200mA
	BAT42WS	V _F			0.4	V	l⊧=10mA
	BAT42WS	V _F			0.65	V	l₅=50mA
	BAT43WS		0.26		0.33	V	l⊧=2mA
	BAT43WS	VF			0.45	V	l⊧=15mA
Reverse current		lR			0.5	μA	V _R =25V
Capacitance between	een terminals	Ст			10	pF	V _R =1.0V,f=1.0MHz
Reverse recovery time		t _{rr}			5	ns	l _F =I _R =10mA Irr=0.1XI _R ,R _L =100Ω





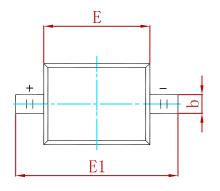


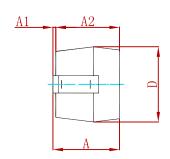


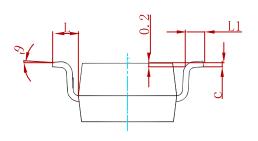




PACKAGE MECHANICAL DATA

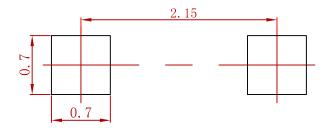






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min. Max.		Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
Е	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L,	0.475 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
BAT42WS~BAT43WS	SOD-323	3000



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