MSKSEMI 美森科













ESD

TVS

SS

MOV

GDT

PLED

BAV19W/20W/21W

Product specification

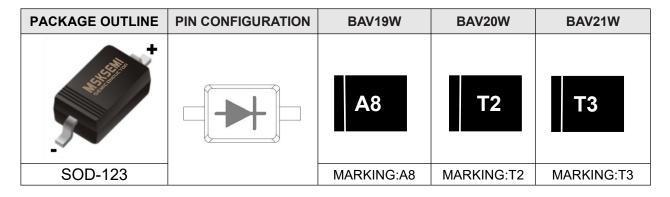




FEATURES

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

Reference News



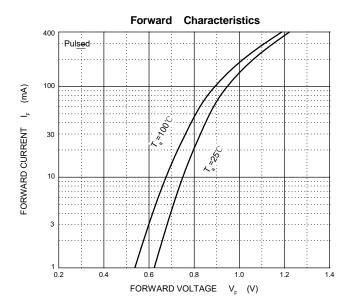
MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

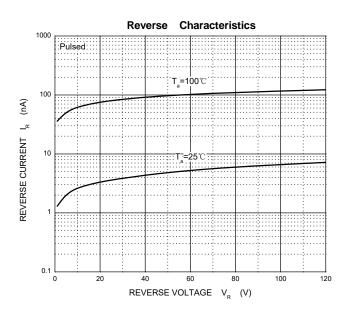
Symbol	Parameter	Value			
	Faianietei	BAV19W	BAV20W	BAV21W	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Peak Repetitive Reverse Voltage	100 150 200		200	
\mathbf{V}_{RWM}	Working Peak Reverse Voltage	100	150	200	V
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
lo	Average Rectified Output Current	200			mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0			Α
P _D	Power Dissipation	500			mW
R _{. JA}	Thermal Resistance from Junction to Ambient	250			°C/W
T_{J} , T_{stg}	Operation Junction and Storage Temperature Range -55~+150				°C

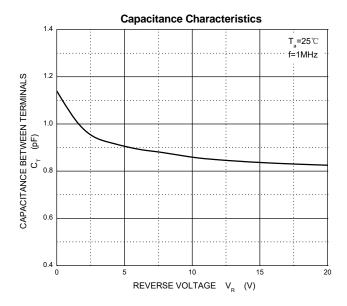
ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

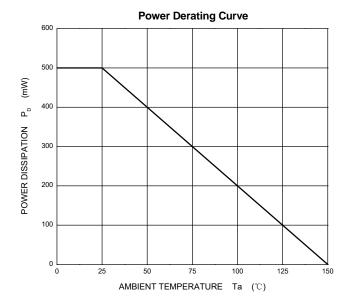
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
	l R	V _R =100V	BAV19W			0.1	uA
Reverse current		V _R =150V	BAV20W			0.1	
		V _R =200V	BAV21W			0.1	
F	VF	I==100mA				1	.,
Forward voltage		l=200mA				1.25	V
Total capacitance	Ctot	V _R =0V,f=1MHz				5	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1 ^* I_R$	R _L =100Ω			50	ns





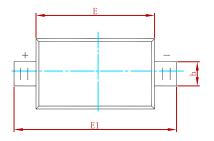


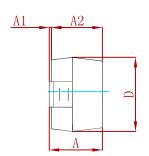


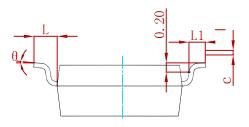




PACKAGE MECHANICAL DATA

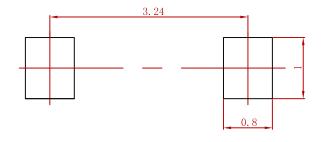






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
Ĺ	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1.Controlling dlmenslon:in mlllmeters. 2.General tolerance:± 0.05mm.
- 3. The pad layout Is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BAS19W/20W/21W	SOD-123	3000



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specificationsof any andall MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents—or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

单击下面可查看定价,库存,交付和生命周期等信息

>>MSKSEMI (美森科)