



Product data sheet

www.msksemi.com

Downloaded From Oneyac.com





SOD-' 23



BAT46WG SCHOTTKY BARRIER DIODE

FEATURES

- High breakdown voltage
- Low turn-on voltage
- Guard ring construction for transient protection

Maximum Ratings @T₂=25℃

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage		100	V
Working peak reverse voltage	V _{RWM}	100	v
Forward continuous current	l _F	150	mA
Repetitive peak forward current (Note 1) @ tp < 1.0s, Duty Cycle < 50%	I _{FRM}	350	mA
Non-repetitive Peak Forward surge current @ t = 8.3ms	I _{FSM}	750	mA
Power dissipation	PD	200	mW
Thermal resistance junction to ambient air	$R_{ extsf{ heta}JA}$	500	°C/W
Operating Junction Temperature Range	Tj	-40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

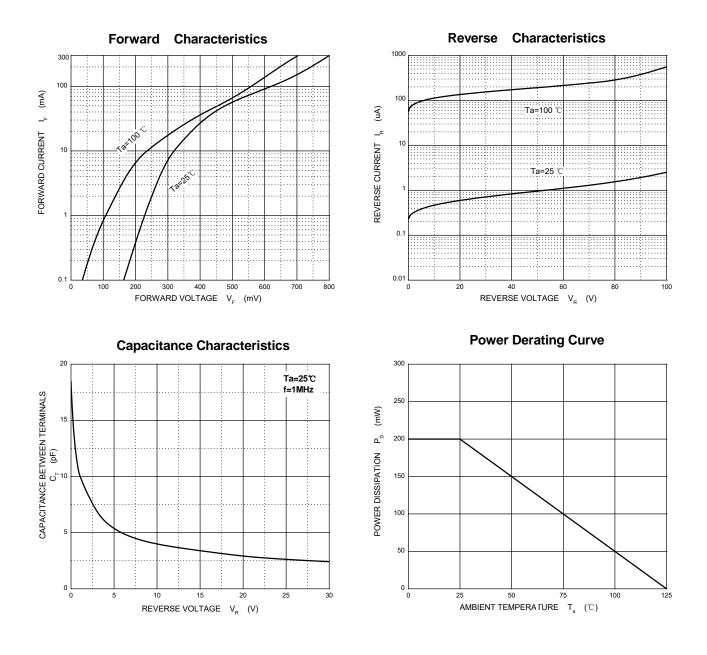
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Reverse breakdown voltage(Note 2)	V _R	Ι _R = 100μΑ	100			V	
Reverse voltage leakage current	I _R	V _{R1} =1.5V			0.3		
		V _{R2} =10V			0.5	μA	
		V _{R3} =50V			1		
		V _{R4} =75V			2		
	VF	I _{F1} =0.1mA			0.25	V	
Forward voltage(Note 2)		I _{F2} =10mA			0.45		
		I⊧₃=250mA			1		
		V _R =0, f=1MHz		20		_	
Diode capacitance	CT	V _R =1V, f=1MHz		12		pF	

Notes: 1. Part mounted on FR-4 board with recommended pad layout.

2. Short duration pulse test used to minimize self-heating effect.

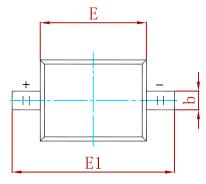


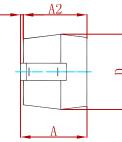




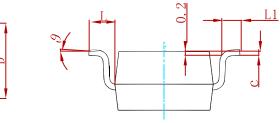


PACKAGE MECHANICAL DATA



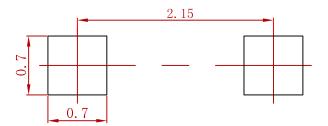


<u>A1</u>



Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.
A		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
BAT46WS	SOD-323	3000





<u>Attention</u>

■ 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 specifications f any and all MSKSEMI Semiconductor products described orcontained 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's products or equipment.

■ MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possible that 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 circuits for 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)