

MSKSEMI 美森科

SEMICONDUCTOR



ESD



TVS



TSS



MOV



GDT



PLED

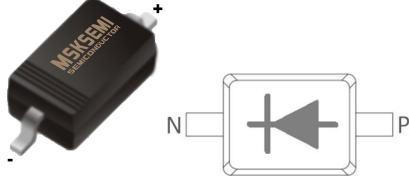

BAS321

Product specification

FEATURES

- FastSwitchingSpeed:max.50nS.
- ContinuousReverseVoltage:max.200V.
- LowLeakageCurrent:100nAatRoomTemperature.
- SurfaceMountPackageldeallySuitedforAutomaticInserntion.

Reference News

PACKAGE OUTLINE	MARKING
 <p>SOD-323</p>	

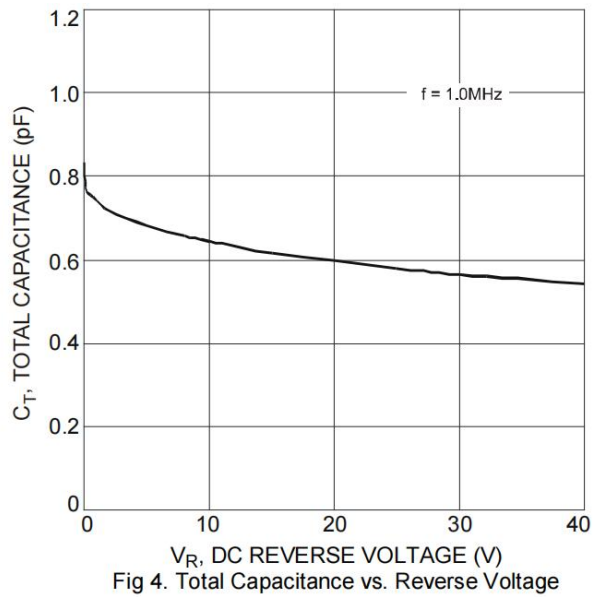
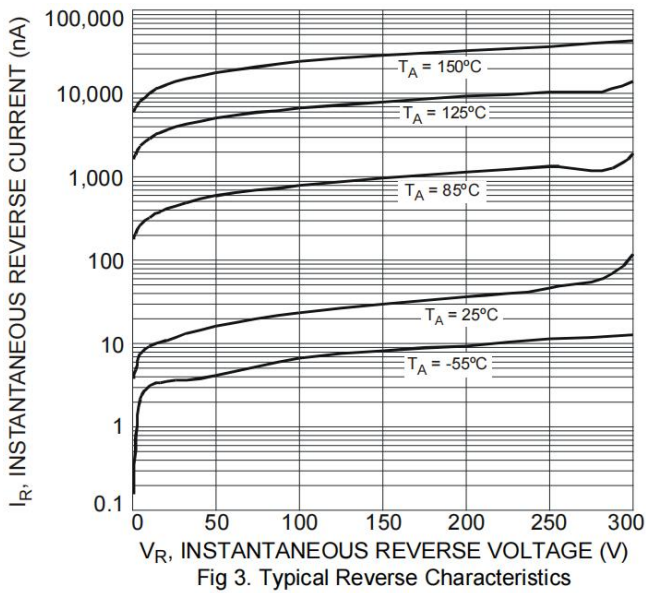
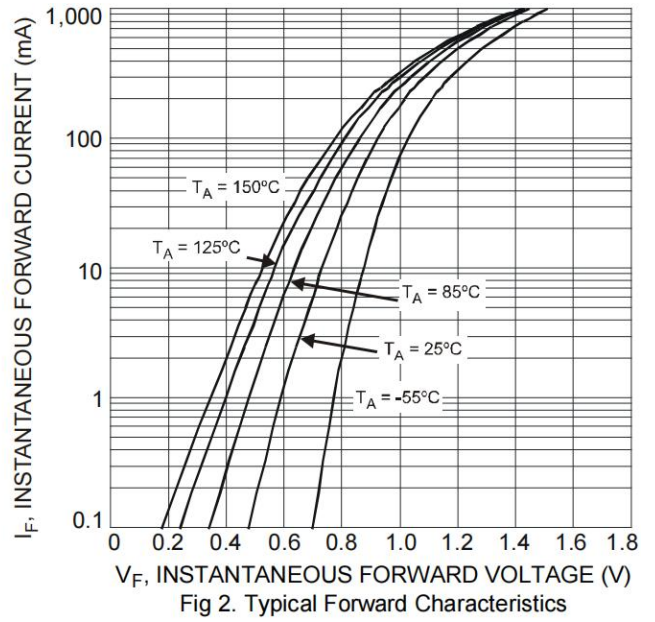
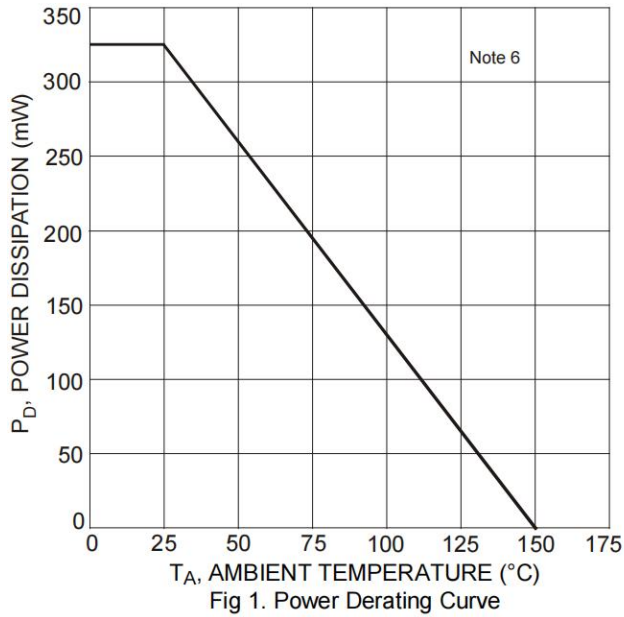
Absolute Maximum Ratings(Ta=25°C)

Symbol	Parameter	Value	Unit
V _{RM}	Non-repetitive Peak Reverse Voltage	250	V
V _{RRM}	Peak Repetitive Peak Reverse Voltage	200	V
V _{RWM}	Working Peak Reverse Voltage		
V _R	DC Blocking Voltage		
I _{FM}	Forward Continuous Current(Note 1)	250	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=1μS	4.5	A
I _{FRM}	Repetitive Peak Forward Current(Note 1)	1	A
P _d	Power Dissipation(Note 1)	325	mW
R _{ΘJA}	Thermal Resistance From Junction To Ambient(Note 1)	385	°C/W
T _J	Operation Junction Temperature Range	-40~+150	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

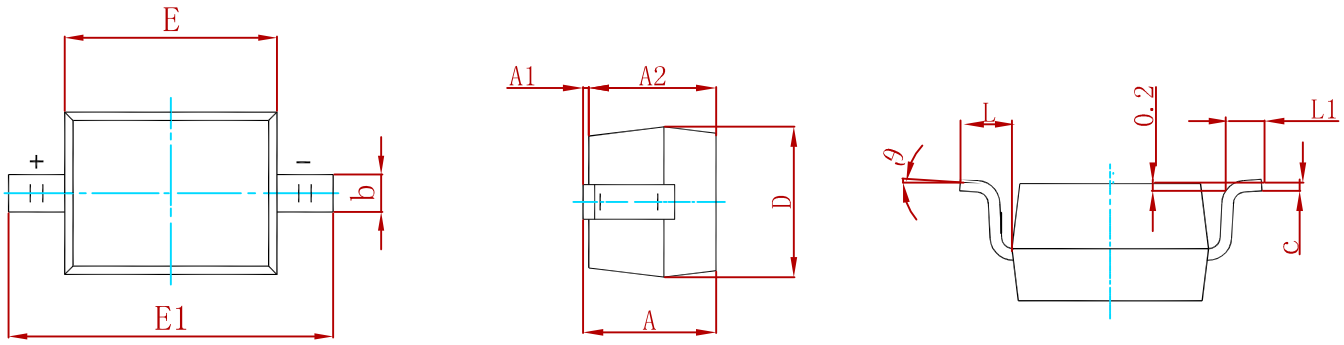
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage(Note 2)	I _R =100μA	250			V
I _R	Reverse current(Note 2)	V _R =200V			100	nA
		V _R =200V, T _J =150°C			100	μA
V _F	Forward voltage	I _F =100mA			1.1	V
		I _F =100mA			1.25	
C _T	Capacitance Between Terminals	V _R =0V, f=1MHz		5		pF
t _{rr}	Reverse recovery time	I _F =I _R =30mA I _{rr} =0.1X I _R , R _L =100Ω			50	nS

Typical Characteristics

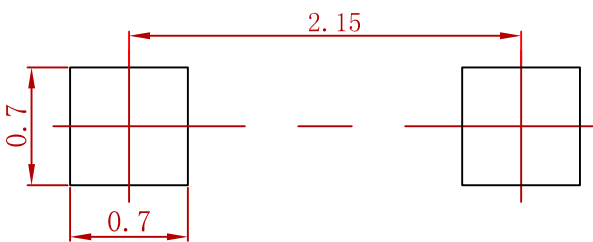


PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	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
c	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
BAS321	SOD-323	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 specifications of any and all 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's products or equipment.
- MSKSEMI Semiconductor strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. 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 and error prevention circuits for safe design, 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 the authorities 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. When designing equipment, refer to the "Delivery Specification" for the MSKSEMI Semiconductor product that you intend to use.