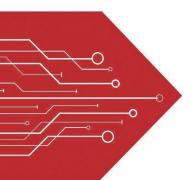
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

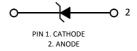
Semiconductor

Compiance

Specification Features:

- Ultra Low Capacitance 0.5 pF
- Low Clamping Voltage
- Small Body Outline Dimensions: 0.039" x 0.024" (1.00 mm x 0.60 mm)
- Low Body Height: 0.016" (0.4 mm)
- Stand-off Voltage: 5 V
- Low Leakage
- Response Time is Typically < 1.0 ns
- IEC61000-4-2 Level 4 ESD Protection
- This is a Pb-Free Device
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.





SOD-923

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted, VF = 1.0 V Max. @ IF = 10 mA for all types)

501	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ιτ	С	(pF)	Vc (V) @ Ipp = 1 A (Note 3)	Vc
P/N	Max	Max	Min	mA	Тур	Max	Max	Per IEC61000-4-2 (Note 4)
ESD9X5.0ST5G-MS	5.0	1.0	5.4	1.0	15	15	9.8	Figures 1 and 2 See Below

- 2. VBR is measured with a pulse test current IT at an ambient temperature of 25°C.
- 3. Surge cuprrent waveform poerFigure 5.
- 4. For test rocedure see Fi ures 3 and 4.

ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

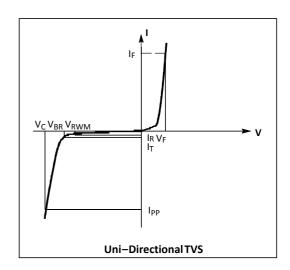
Symbol	Parameter				
I _{PP}	Maximum Reverse Peak Pulse Current				
Vc	Clamping Voltage @ IPP				
V _{RWM}	Working Peak Reverse Voltage				
lR	Maximum Reverse Leakage Current @ VRwм				
V _{BR}	Breakdown Voltage @ I _T				
ΙΤ	Test Current				
lF	Forward Current				
VF	Forward Voltage @ IF				
P _{pk}	Peak Power Dissipation				
С	Capacitance @ V _R = 0 and f = 1.0 MHz				

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Contact Air		±10 ±15	kV
Total Power Dissipation on FR-5 Board (Note 1) @ T _A = 25°C	P _D	150	mW
Storage Temperature Range	T _{stg}	-55 to +150	°C
Junction Temperature Range	TJ	-55 to +125	°C
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	°C

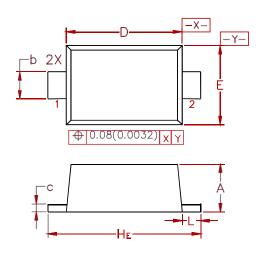
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0 x 0.75 x 0.62 in.



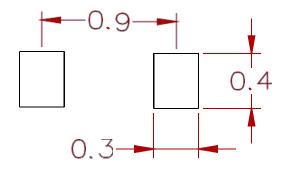


PACKAGE MECHANICAL DATA



		Millimeters		Inches			
Dim	Min	Nom	Max	Min	Nom	Max	
Α	0.36	0.40	0.43	0.014	0.016	0.017	
b	0.15	0.20	0.25	0.006	0.008	0.010	
С	0.07	0.12	0.17	0.003	0.005	0.007	
D	0.75	0.80	0.85	0.030	0.031	0.033	
E	0.55	0.60	0.65	0.022	0.024	0.026	
HE	0.95	1.00	1.05	0.037	0.039	0.041	
L	0.05	0.10	0.15	0.002	0.004	0.006	

Suggested Pad Layout



Dimensions: Millimeters

REEL SPECIFICATION

P/N	PKG	QTY
ESD9X5.0ST5G-MS	SOD-923	8000

Semiconductor

Compiance

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 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 infringementsof intellectual property rights or other rightsof 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)