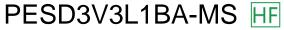




Product data sheet

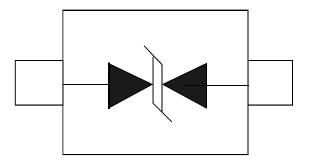
www.msksemi.com





Semiconductor Compiance

- 480Watts peak pulse power (tp =8/20µs)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV contact ±30kV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 20A(8/20µs)





»Applications

- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

»Mechanical Data

- SOD323 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20µs)	=8/20µs) P _{PP}		Watts
Peak Pulse Current (t _p =8/20µs)(note1)	I _{pp}	20	A
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V _{ESD}	30 30	kV
Lead Soldering Temperature	TL	260(10seconds)	°C
Junction Temperature	TJ	-55 to + 150	°C
Storage Temperature	T _{stg}	-55 to + 150	°C





PESD3V3L1BA-MS HF

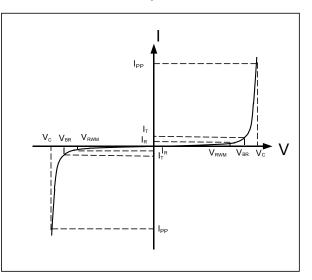
Semiconductor Compiance

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Мах	Units
Reverse Stand-OffVoltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	4.0			V
Reverse Leakage Current	I _R	V _{RWM} =3.0V,T=25℃			1	uA
Clamping Voltage	Vc	I _{PP} =20A,t _p =8/20μs			24	V
Junction Capacitance	Cj	$V_R = 0V, f = 1MHz$		100		pF

Electrical Parameters (TA = 25°C unless otherwisenoted)

Symbol	Parameter		
 PP	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
VRWM	Working Peak Reverse Voltage		
lĸ	Maximum Reverse Leakage Current @ VRWM		
VBR	Breakdown Voltage @ I⊤		
Iτ	Test Current		

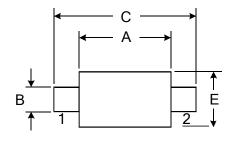


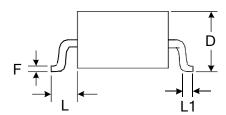
Note: 8/20µs pulsewaveform.

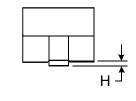


PESD3V3L1BA-MS

Semiconductor Compiance







DIMENSIONS					
SYMBOL	MILLIMETER		INCHES		
	MIN	MAX	MIN	MAX	
А	1.600	1.800	0.063	0.071	
В	0.250	0.350	0.010	0.014	
С	2.500	2.700	0.098	0.106	
D		1.000		0.039	
E	1.200	1.400	0.047	0.055	
F	0.080	0.150	0.003	0.006	
L	0.475 REF		0.019REF		
L1	0.250	0.400	0.010	0.016	
Н	0.000	0.100	0.000	0.004	

SOD323

Order code	Package	Base qty	Delivery mode
PESD3V3L1BA-MS	SOD323	3000	Tape and reel



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 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.