MSKSEMI 美森科













ESD

TSS

MOV

GDT

PIFD

MBRS1100T3G(MS)

Product specification





FEATURES

- Very Low Forward Voltage Drop
- Small Compact Surface Mountable Package
- Highly Stable Oxide Passivated Junction
- Guardring for Stress Protection
- Pb / RoHS Free

MECHANICALDATA

• Case : SMB Molded plastic

• **Epoxy**: UL94V-O rate flame retardant

• Lead : Lead Formed for Surface Mount

Polarity : Color band denotes cathode end

Mounting position : Any

• **Weight**: 0.117 gram

Reference News

Outline	Marking
SMB	MSKSEMI B1C

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

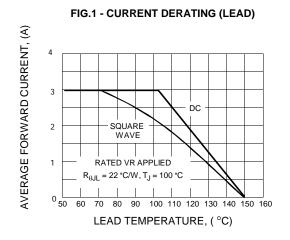
Rating at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Reverse Voltage	VRRM	100	V
Maximum Working Peak Reverse Voltage	VRWM	100	V
Maximum DC Blocking Voltage	VDC	100	V
Maximum Average Rectified Forward Current	lf(AV)	1.0 (TL = 120°C)	Α Α
Maximum Average Rectified Forward Current	IF(AV)	2.0 (T _L = 100°C)	^
Non-repetitive Peak Surge Current			
(Surge applied at rated load conditions half wave, single phase, 60Hz)	IFSM	50	А
Maximum Instantaneous Forward Voltage (Note 1) (IF = 1.0 A, TJ = 25°C)	VF	0.75	V
Maximum Instantaneous Reverse Current (Note1)			
(Ratedc Voltage, Tj = 25°C)	IR	0.5	mA
(Ratedc Voltage, Tj = 100°C)		5.0	
Thermal Resistance - Junction to Lead (TL = 25°C)	RθJL	22	°C/W
Operating Junction Temperature	TJ	- 65 to +150	°C

Note: (1) Pulse Test : Pulse Width = 300µs Duty Cycle ≤ 2%



RATING AND CHARACTERISTIC CURVES



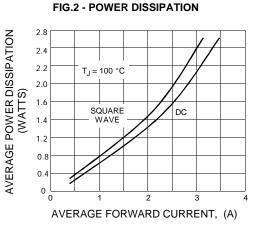


FIG.3 - TYPICAL FORWARD VOLTAGE

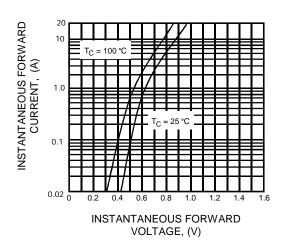


FIG.4 - TYPICAL REVERSE CURRENT

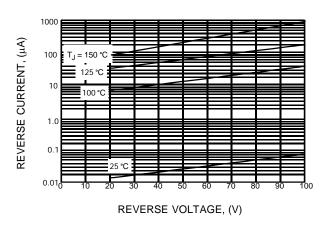
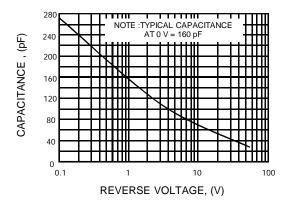
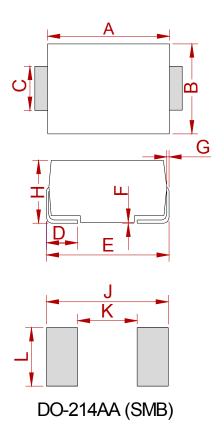


FIG. 5 TYPICAL CAPACITANCE



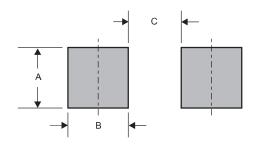


PACKAGE MECHANICAL DATA



	Dimensions			
Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
Α	4.25	4.75	0.167	0.187
В	3.30	3.94	0.130	0.155
С	1.85	2.21	0.073	0.087
D	0.76	1.52	0.030	0.060
Е	5.08	5.59	0.200	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
Н	2.11	2.44	0.083	0.096
J	6.80		0.270	
K		2.60		0.100
L	2.40		0.090	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SMB	0.078 (2.00)	0.059 (1.50)	0.110 (2.80)

REELSPECIFICATION

P/N	PKG	QTY
MBRS1100T3G(MS)	SMB	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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by MSKSEMI manufacturer:

Other Similar products are found below:

MA4E2039 MMBD301M3T5G RB160M-50TR D83C BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327

NRVBAF360T3G NSR05F40QNXT5G NTE555 JANS1N6640 SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MBRA140TRPBF

MBRB30H30CT-1G BAT 15-04R E6152 JANTX1N5712-1 DMJ3940-000 SB007-03C-TB-E NRVBB20100CTT4G NRVBM120LT1G

NTSB30U100CT-1G CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF

ACDBA260LR-HF ACDBA1100-HF 10BQ015-M3/5BT NRVBM120ET1G VSSB410S-M3/5BT 1N5819T-G PDS1040Q-13 B160BQ-13-F

SDM05U20CSP-7 BAS 70-07 E6433 B140S1F-7 HSM560Je3/TR13 DDB2265-000 ZHCS506QTA HSM190Je3/TR13 B330AF-13

ACDBUC0230-HF SDM1U100S1F-7 MBR10200CTF-G1 CDLL5712 DMF2822-000