



Product data sheet

www.msksemi.com



<u>SS1045B THRU SS10200B</u> HE 🐼

Semiconductor Compiance

VOLTAGE RANGE 45 to 200 Volts CURRENT

10.0Ampere



SMB

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MAR)K		SS1045B	SS1060B	SS10100B	SS10150B	SS10200B	UNITS
Maximum Recurrent Peak Reverse Voltage		45	60	100	150	200	V
Maximum RMS Voltage		32	42	70	105	140	V
Maximum DC Blocking Voltage		45	60	100	150	200	V
Maximum Average Forward Rectified	Current		1			1	
See Fig. 1		10.0				А	
Peak Forward Surge Current, 8.3 ms s	ingle half sine-wave						
superimposed on rated load (JEDEC method)		175				А	
Maximum Instantaneous Forward Voltage at 10.0A		0.55	0.7	0.85	0.	92	V
Maximum DC Reverse Current	Ta=25°C	0	.1	0.02		μΑ	
at Rated DC Blocking Voltage	Ta=125°C	Ę	5		2		mA
Typical Junction Capacitance (Note1)		400				pF	
Typical Thermal Resistance R JA (Note 2)		16				°C/W	
Operating Temperature Range TJ		— -55 to +150 —					°C
Storage Temperature Range Tstc		-55 to +150					°C
. . .		1			~		

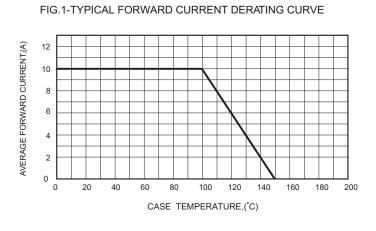
NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

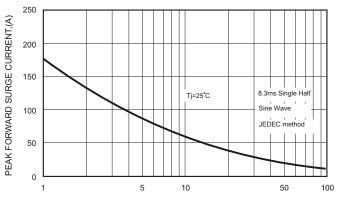
2. Thermal Resistance Junction to Lead.

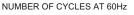


RATING AND CHARACTERISTIC CURVES (SS1045B THRU SS10200B)









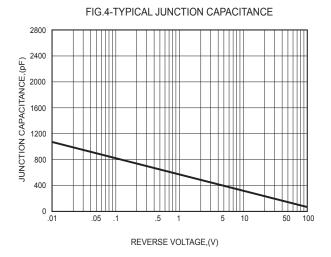
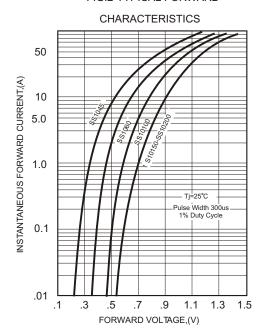
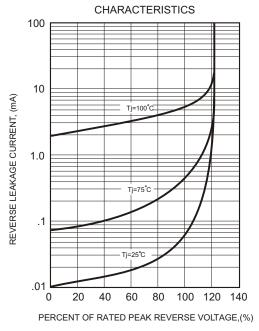


FIG.2-TYPICAL FORWARD



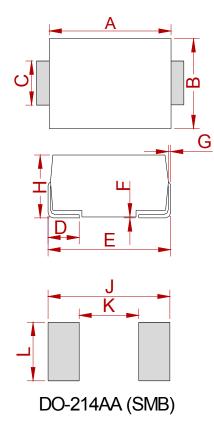






SS1045B THRU SS10200B

PACKAGE MECHANICAL DATA



	Dimensions						
Ref.	Millir	neters	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			
E	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				
К		2.60		0.100			
L	2.40		0.090				

REEL SPECIFICATION

P/N	PKG	QTY
SS1045B THRU SS10200B	SMB	3000



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.

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 MA4E2508M-1112 MBR0530L-TP MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 IDL02G65C5XUMA1 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G JANTX1N5712-1 SB007-03C-TB-E SK33B-TP SK35A-TP SK38B-LTP NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L-1246 10BQ015-M3/5BT 10BQ060-M3/5BT NRVB130LSFT1G CRS08TE85LQM PMAD1108-LF B120Q-13-F 1N5819T-G B0530WSQ-7-F