

MBR260HW

Technical Data Data Sheet N1503, Rev.C



MBR260HW SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- 125°C T_J operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Terminals finish: 100% Pure Tin
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams(approx)
- Marking code: L26

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	60	v
Average Rectified Forward Current (At Rated V _R , T _L = 55 $^{\circ}$ C)	lo	2	A
Forward Voltage $@I_F = 1A, T_A = 25^{\circ}C$ $@I_F = 2A, T_A = 25^{\circ}C$	V _{FM}	0.52 0.66	V
Peak Reverse Current $@T_A = 25^{\circ}C$	I _{RM}	50	μA
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Half-wave, Single Phase, 60 Hz)	IFSM	30	А
Maximum Junction Capacitance (Note 1)	Cj	100	pF
Operating Junction Temperature Range	TJ	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Note 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.

http://www.smc-diodes.com - sales@ smc-diodes.com •

Circuit Diagram



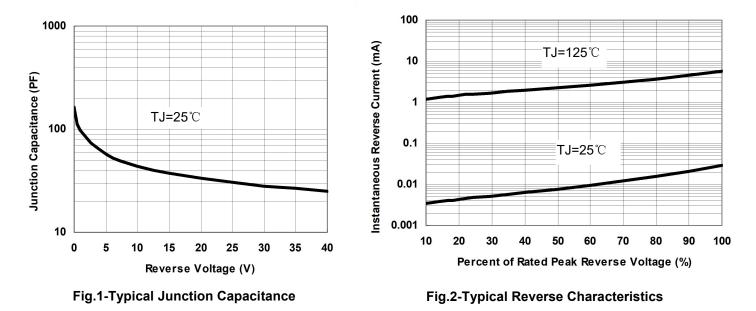


Technical Data Data Sheet N1503, Rev.C

MBR260HW



Ratings and Characteristics Curves



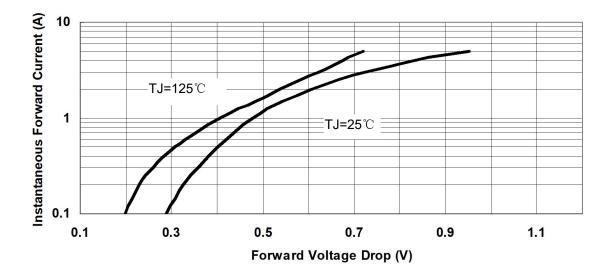


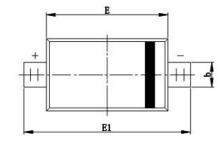
Fig.3-Typical Forward Voltage Drop Characteristics

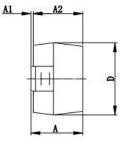
China - Germany - Korea - Singapore - United States http://www.smc-diodes.com - sales@ smc-diodes.com -

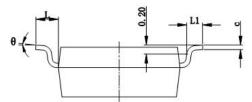


Technical Data Data Sheet N1503, Rev.C

Mechanical Dimensions SOD-123







OVMDO	Millimeters		Inches		
SYMBOL	MIN.	MAX.	MIN.	MAX.	
А	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
с	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF.		0.020	0.020 REF.	
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

Marking Diagram



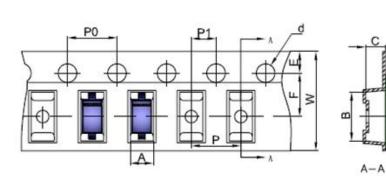
Where X is Date Code L26 =Marking code

Ordering Information

Device	Package	Shipping
MBR260HW	SOD-123 (Pb-Free)	3000pcs / reel
MBR260HWTR	SOD-123 (Pb-Free)	3000pcs / reel
MBR260HWTR1	SOD-123 (Pb-Free)	10000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Carrier Tape Specification SOD-123



SYMBOL	Millimeters		
STMBOL	Min.	Max.	
A	1.80	1.90	
В	3.89	3.99	
С	1.52	1.62	
d	1.45	1.65	
E	1.65	1.85	
F	3.40	3.60	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
W	7.90	8.30	

- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •

MBR260HW

RoHS 🗭



Technical Data Data Sheet N1503, Rev.C

MBR260HW



DISCLAIMER:

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall SMC Diode Solutions be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Diode Solution assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.

4- In no event shall SMC Diode Solutions be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.

5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Diode Solutions.

6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Diode Solutions.

7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.

http://www.smc-diodes.com - sales@ smc-diodes.com •