

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





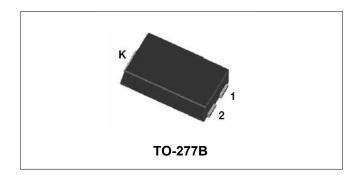








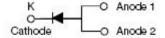
MBR340S SCHOTTKY RECTIFIER



Features

- Designed as Bypass Diodes for Solar Panels
- High Forward Surge Capability
- Ultra Low Forward Voltage Drop
- Excellent High Temperature Stability
- This is a Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	40	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=80°C, rectangular wave form	3	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse, Tc=25°C	75	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 3A, Pulse, T _J = 25 °C	0.40	0.63	V
	V _{F2}	@ 3A, Pulse, T _J = 125 °C	0.33	0.57	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}C$	0.03	1.0	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 100^{\circ}\text{C}$	3	20	mA
Junction Capacitance	С	@V _R = 5.0 V, Tc=25°C f _{SIG} = 1MHz	130	200	pF

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

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



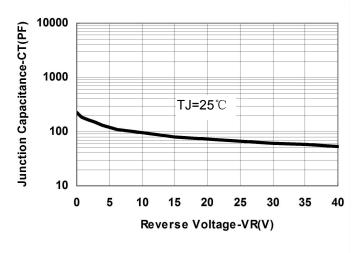




Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _θ JC	-	8	°C/W
Approximate Weight	wt	-	0.08	g

Ratings and Characteristics Curves



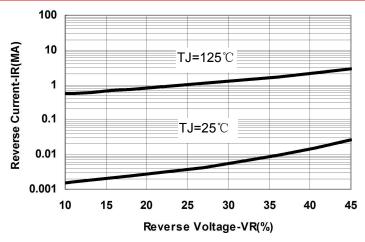


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

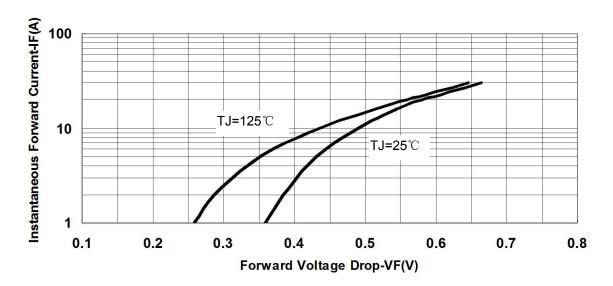


Fig.3-Typical Instantaneous Forward Voltage Characteristics

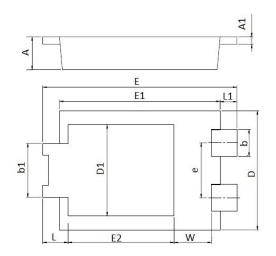
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

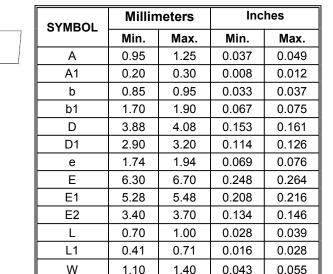






Mechanical Dimensions TO-277B





Ordering Information

Device	Package	Shipping	
MBR340S	TO-277B(Pb-Free)	5000pcs/ reel	

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

Marking Diagram



Mark Spec

Where XXXXX is YYWWL

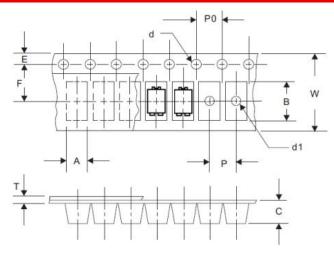
MBR = Device Type
3 = Forward Current (3A)
40 = Reverse Voltage (40V)
S = Package type
YY = Year
WW = Week

= Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape Specification TO-277B



SYMBOL	Millimeters		
STWIDUL	Min.	Max.	
Α	4.28	4.48	
В	6.80	7.10	
С	1.30	1.50	
d	1.40	1.60	
d1	-	1.50	
E	1.65	1.85	
F	5.40	5.60	
Р	7.90	8.10	
P0	3.90	4.10	
Т	0.24	0.44	
W	11.70	12.30	

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







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 Sangdest Microelectronics (Nanjing) Co., Ltd 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 Sangdest Microelectronics (Nanjing) Co., Ltd 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 Sangdest Microelectronics (Nanjing) Co., Ltd 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 Sangdest Microelectronics (Nanjing) Co., Ltd 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 Sangdest Microelectronics (Nanjing) Co., Ltd.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Sangdest Microelectronics (Nanjing) Co., Ltd.
- 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.