

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









Micro Commercial Components

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# MB12S THRU MB110S

## **Features**

- High Temperature Soldering Guaranteed:260℃/10 Second
- Saves Space On Printed Circuit Board
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

## **Mechanical Data**

- Teminals: Plated leads Solderable per MIL-STD-750,Method 2026
- Moisture Sensitiviy:Level 1 per J-STD-020C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB12S	MB12S	20V	14V	20V
MB14S	MB14S	40V	28V	40V
MB16S	MB16S	60V	42V	60V
MB18S	MB18S	80V	56V	80V
MB110S	MB110S	100V	70V	100V

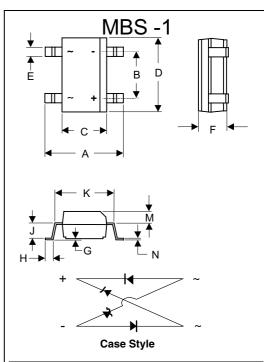
### Electrical Characteristics @ 25°C Unless Otherwise Specified

iooti iodi olidi dotoi lotico 👙 20 o oliloto otiloi Mico opociilod					
Average Forward Current	$I_{F(AV)}$	1A			
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage MB12S~MB14S MB16S MB18S~MB110S	$V_{F}$	0.50V 0.70V 0.85V	I <sub>FM</sub> = 1A; T <sub>A</sub> = 25°C		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.5mA 20mA	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		
Typical Thermal Resistance	$R_{ ext{thJA}}$ $R_{ ext{thJL}}$	88°C/W <sup>(2)</sup> 28°C/W <sup>(2)</sup>	per leg		
Operating Junction and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	-55 to+150 °C			

Notes:

- 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
- 2. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2\*0.2"(5.0\*5.0mm) copper pad areas.

# 1 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts

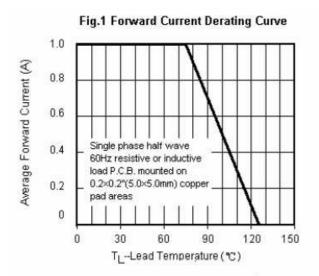


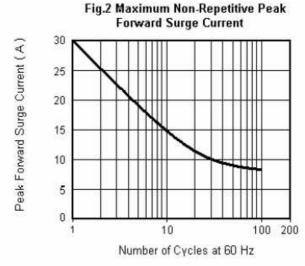
DIMENSIONS							
	INC HES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.252	.275	6.40	7.00			
В	.095	.106	2.41	2.70			
С	.150	.165	3.80	4.20			
D	.179	.195	4.55	4.95			
Е	.019	.031	0.50	0.80			
F	.090	.106	2.30	2.70			
G	.004	.008	0.10	0.20			
Η	.027	.043	0.70	1.10			
J	.058	.062	1.47	1.57			
K	.195	.205	4.95	5.21			
М	.039	.049	0.99	1.24			
N	.006	.016	0.15	0.41			

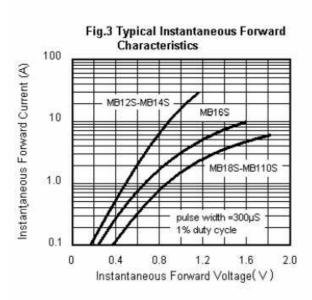
### Mounting Pad Layout

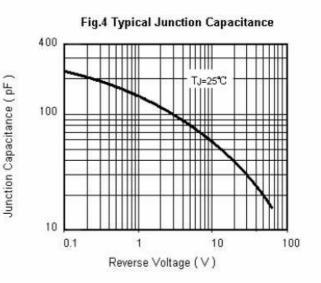














### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

#### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.