

Micro Commercial Components

ROHS

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# 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

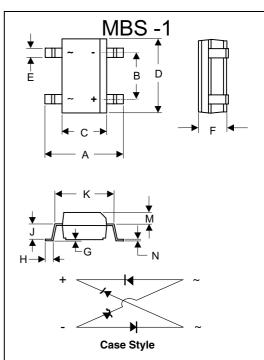
## Electrical Characteristics @ 25°C Unless Otherwise Specified

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

Notes:

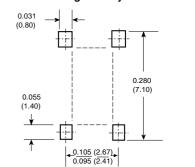
- 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
- 2. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2\*0.2"(5.0\*5.0mm) copper pad areas.

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



DIMENSIONS						
	INC HES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.252	.276	6.40	7.00		
В	.095	.106	2.41	2.70		
С	.142	.165	3.60	4.20		
D	.179	.195	4.55	4.95		
Е	.019	.031	0.50	0.80		
F	.090	.106	2.30	2.70		
G	.002	.008	0.05	0.20		
Ι	.027	.043	0.70	1.10		
ک	.058	.062	1.47	1.57		
K	.195	.205	4.95	5.21		
М	.039	.049	0.99	1.24	_	
Ν	.006	.016	0.15	0.41		

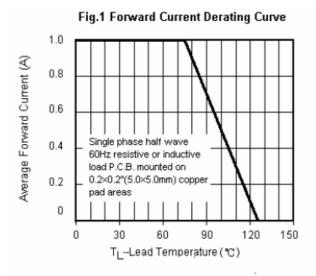
### **Mounting Pad Layout**

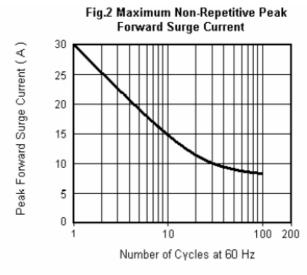


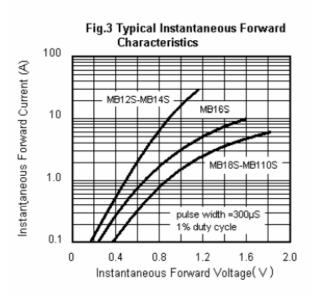


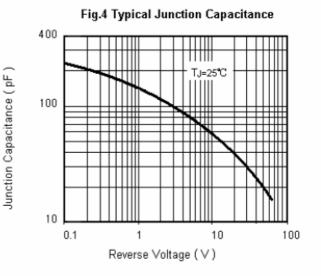
## MB12S thru MB110S

**Micro Commercial Components** 











## **Ordering Information**

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

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

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