

**Micro Commercial Components** 



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

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

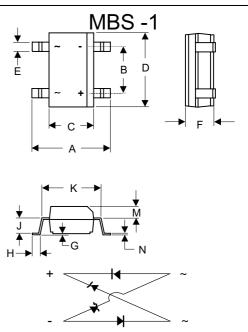
Average Forward Current	$I_{F(AV)}$	1A	
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MB12S~MB14S MB16S MB18S~MB110S	V <sub>F</sub>	0.50V 0.70V 0.85V	$I_{FM} = 1A;$ $T_A = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.5mA 20mA	$T_{A} = 25^{\circ}C$ $T_{A} = 100^{\circ}C$
Typical Thermal Resistance	R <sub>thJA</sub> R <sub>thJL</sub>	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 <sup>°</sup> 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.

## MB12S THRU MB110S

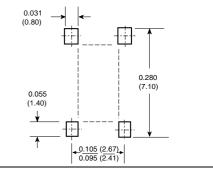
## 1 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts



Case Style

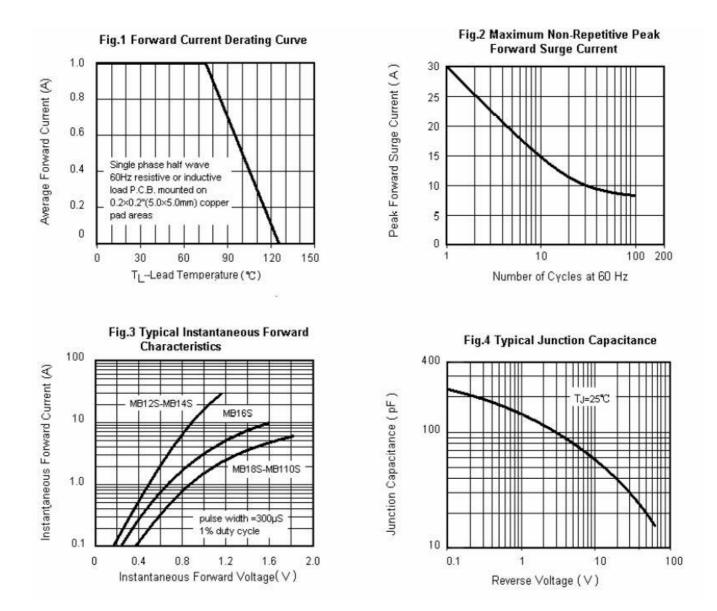
DIMENSIONS						
	INC HES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
A	.252	.276	6.40	7.00		
В	.095	.106	2.41	2.70		
С	.142	.165	3.60	4.20		
D	.179	.195	4.55	4.95		
Е	.019	.031	0.50	0.80		
F	.090	.106	2.30	2.70		
G	.002	.008	0.05	0.20		
Н	.027	.043	0.70	1.10		
J	.058	.062	1.47	1.57		
К	.195	.205	4.95	5.21		
М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

### Mounting Pad Layout



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### **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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