

Micro Commercial Components



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°C/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

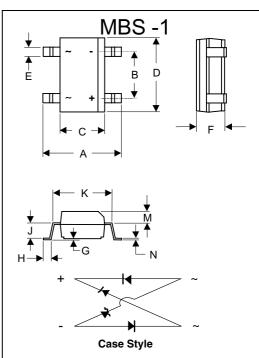
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	1A			
Current					
Peak Forward Surge	I_{FSM}	30A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
MB12S~MB14S	V_{F}	0.50V	$I_{FM} = 1A;$		
MB16S		0.70V	$T_{\Delta} = 25^{\circ}C$		
MB18S~MB110S		0.85V	1 _A = 25 C		
Maximum DC					
Reverse Current At	I_R	0.5mA	$T_A = 25^{\circ}C$		
Rated DC Blocking		20mA	$T_A = 100^{\circ}C$		
Voltage			Λ 100		
Typical Thermal			per leg		
Resistance	R_{thJA}	88°C/W ⁽²⁾			
		28°C/W ⁽²⁾			
	R_{thJL}	28 C/VV`′			
Operating Junction	T_J	-55 to+150			
and Storage	T_{STG}	оС			
Temperature Range	316				
romporature range					

Notes:

- 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
- 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



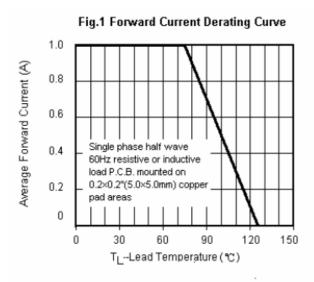
DIMENSIONS							
	INC HES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.252	.276	6.40	7.00			
В	.095	.106	2.41	2.70			
С	.142	.165	3.60	4.20			
D	.179	.195	4.55	4.95			
Е	.019	.031	0.50	0.80			
F	.090	.106	2.30	2.70			
G	.002	.008	0.05	0.20			
Ι	.027	.043	0.70	1.10			
ک	.058	.062	1.47	1.57			
K	.195	.205	4.95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

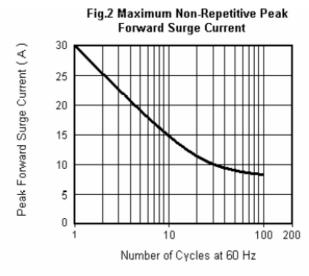
Mounting Pad Layout

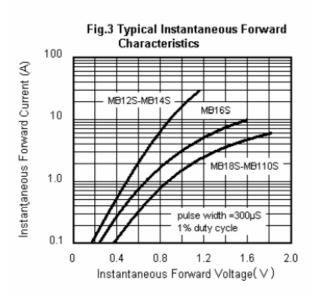


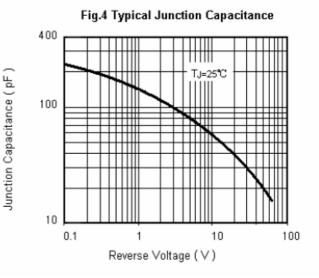
MB12S thru MB110S













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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