

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
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

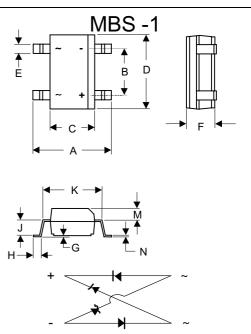
Average Forward	I _{F(AV)}	1A	
Current	'F(AV)		
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current	·F3W		
Maximum			
Instantaneous			
Forward Voltage			
MB12S~MB14S	V _F	0.50V	I _{FM} = 1A;
MB16S MB18S~MB110S		0.70V 0.85V	T₄ = 25 ⁰ C
		0.65 V	A
Maximum DC			T 05%
Reverse Current At	I _R	0.5mA	$T_A = 25^{\circ}C$
Rated DC Blocking		20mA	T _A = 100 [°] C
Voltage			
Typical Thermal		. (0)	per leg
Resistance	R_{thJA}	88°C/W ⁽²⁾	
	R_{thJL}	28°C/W ⁽²⁾	
Operating Junction	ΤJ	-55 to+150	
and Storage	T _{STG}	°C	
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.

MB12S THRU MB110S

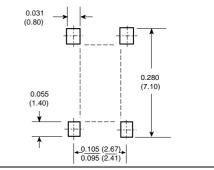
1 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts



Case Style

DIMENSIONS							
INC HES			ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.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			
E	.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			

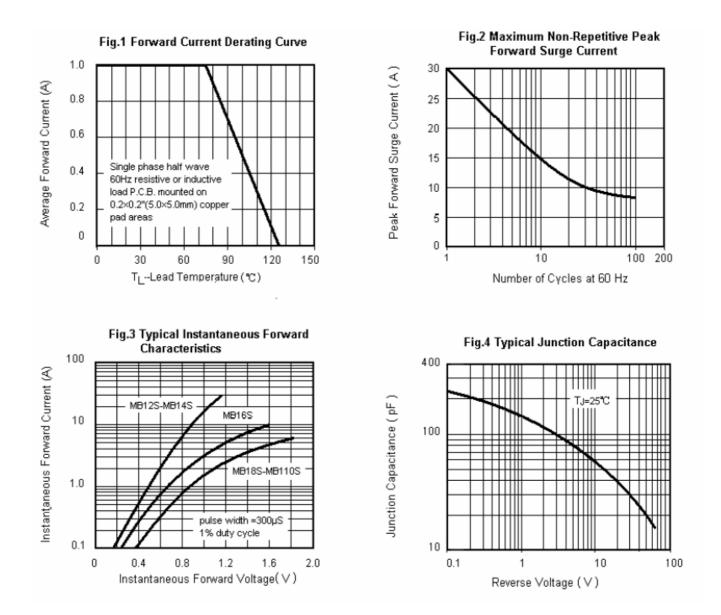
Mounting Pad Layout



Revision: G

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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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Micro Commercial Components (MCC): MB110S-TP MB12S-TP MB16S-TP UF4007-TP MB18S-TP MB14S-TP