



Micro Commercial Components



Micro Commercial Components  
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# MB22S THRU MB210S

## 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

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

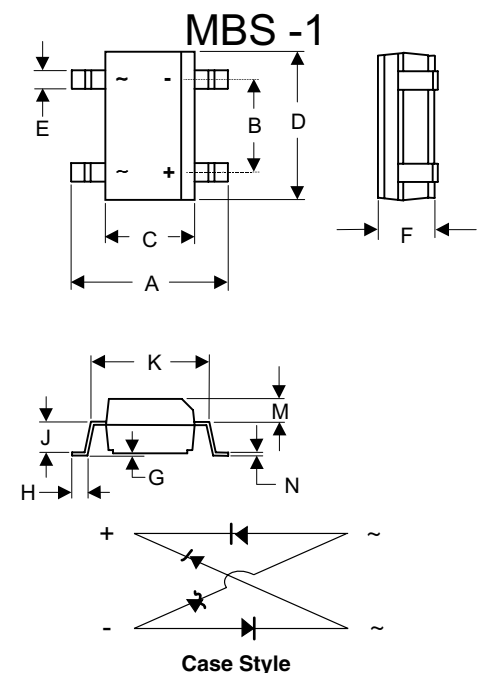
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB22S	MB22S	20V	14V	20V
MB24S	MB24S	40V	28V	40V
MB26S	MB26S	60V	42V	60V
MB28S	MB28S	80V	56V	80V
MB210S	MB210S	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2A	
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MB22S~MB24S MB26S MB28S~MB210S	$V_F$	0.50V 0.70V 0.85V	$I_{FM} = 2A$ ; $T_A = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 20mA	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$
Typical Thermal Resistance	$R_{thJA}$ $R_{thJL}$	85°C/W 20°C/W	per leg
Operating Junction and Storage Temperature Range	$T_J$ $T_{STG}$	-55 to +150°C	

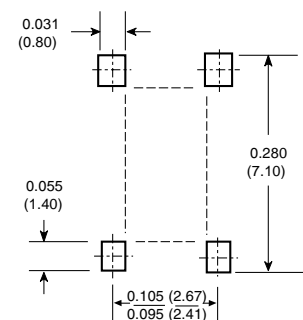
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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



DIM	INC HES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.252	.276	6.40	7.00	
B	.095	.106	2.41	2.70	
C	.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	
H	.027	.043	0.70	1.10	
J	.058	.062	1.47	1.57	
K	.195	.205	4.95	5.21	
M	.039	.049	0.99	1.24	
N	.006	.016	0.15	0.41	

### Mounting Pad Layout



## MB22S thru MB210S

### RATING AND CHARACTERISTIC CURVES

Fig.1 - Forward Current Derating Curve

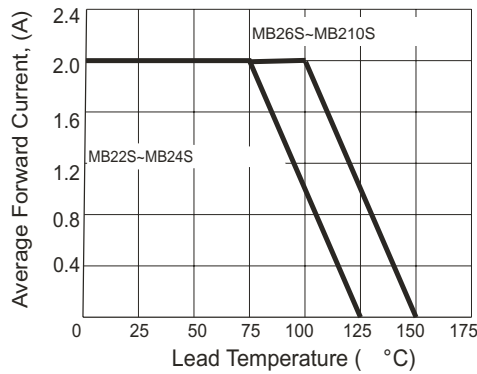


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

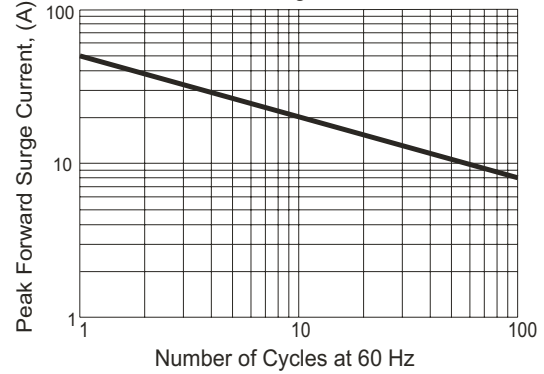


Fig. 3 - Typical Instantaneous Forward Characteristics

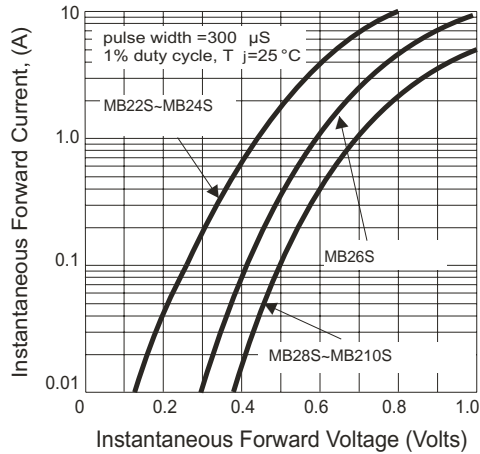


Fig. 4 - Typical Reverse Characteristics

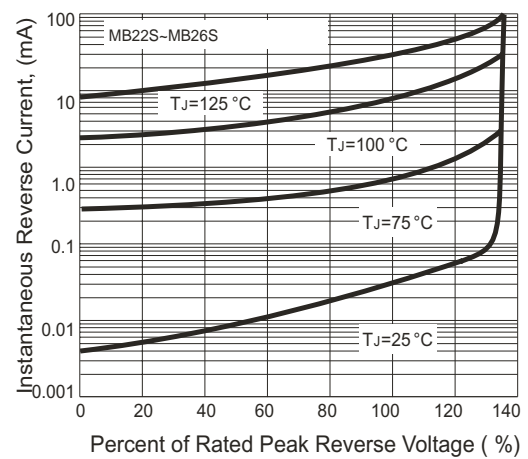


Fig. 5 - Typical Junction Capacitance

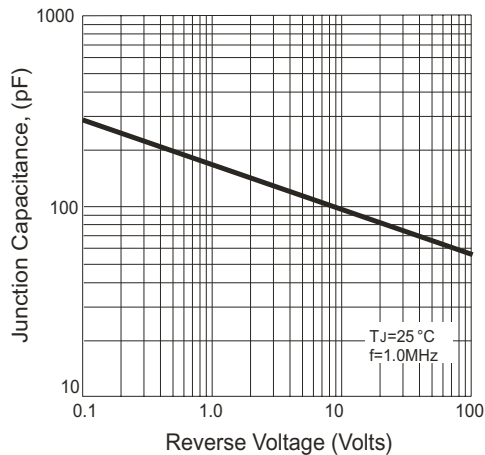
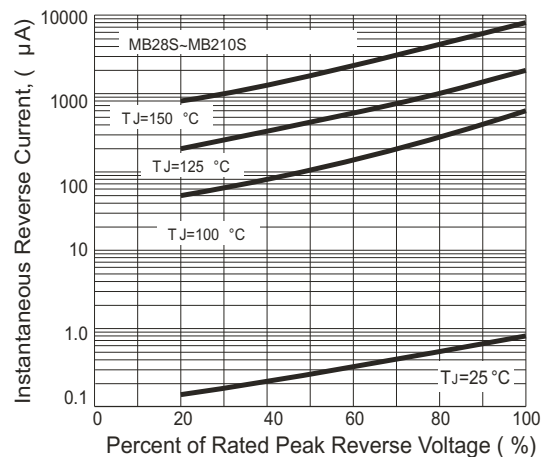


Fig. 6 - Typical Reverse Characteristics



## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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

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