



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

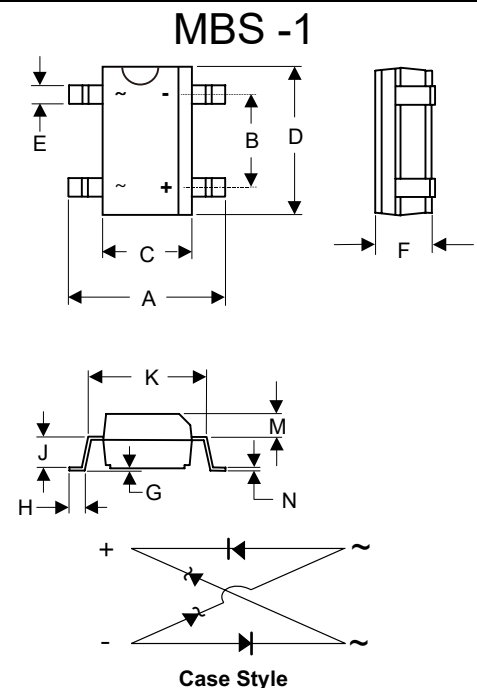
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MB22S | MB22S | 20V | 14V | 20V |
| MB24S | MB24S | 40V | 28V | 40V |
| MB26S | 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 | 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 | |

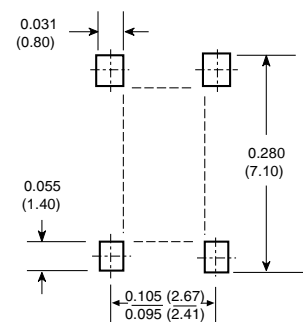
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a

2 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts



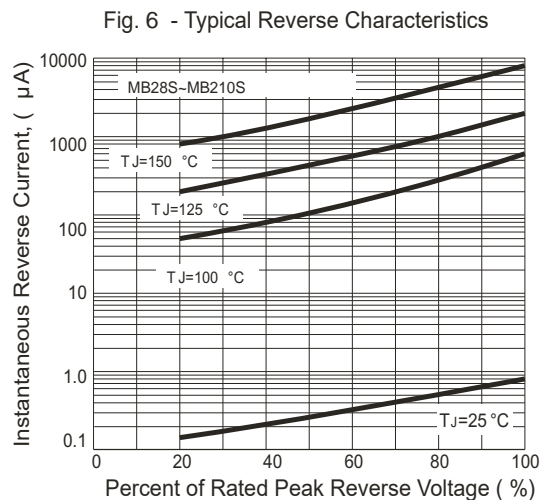
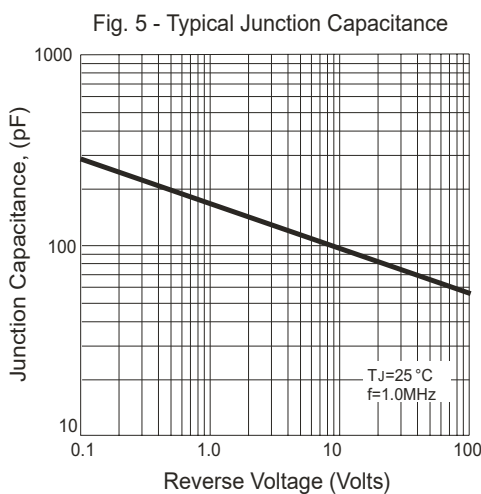
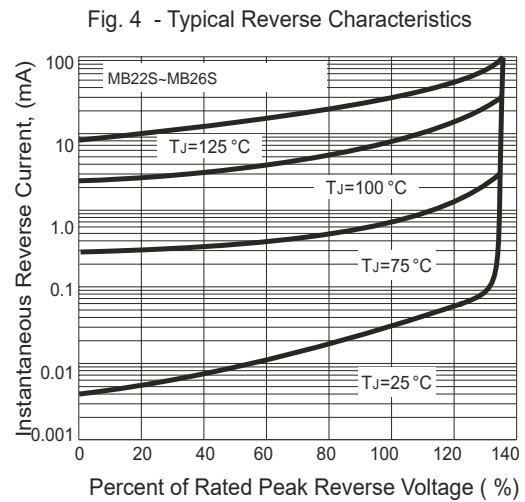
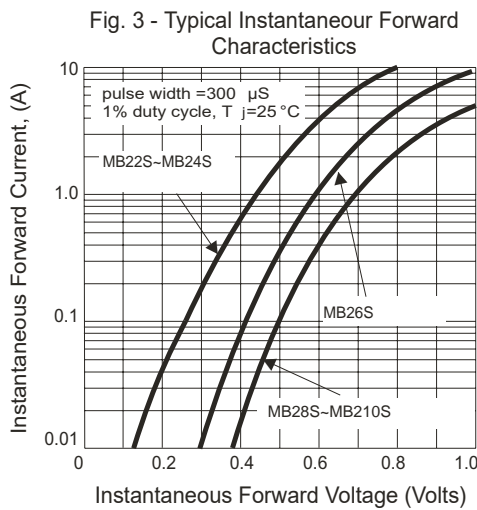
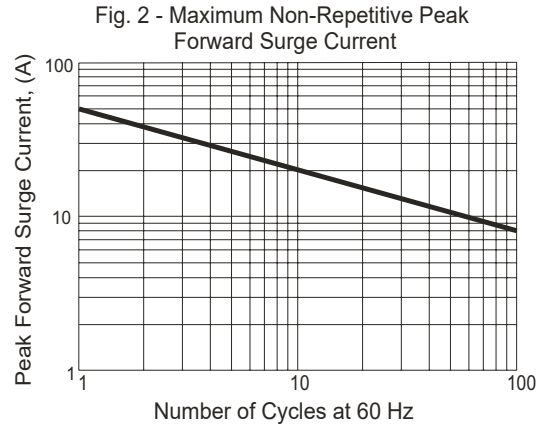
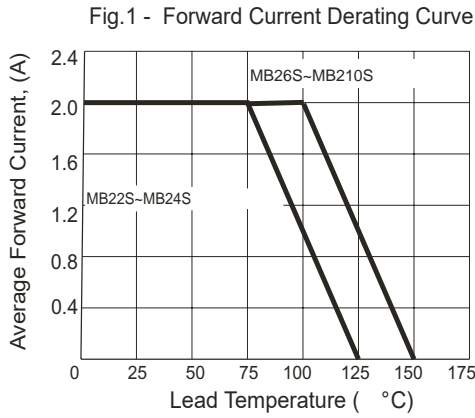
| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|------|------|
| | INC HES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .252 | .276 | 6.40 | 7.00 | |
| B | .095 | .106 | 2.41 | 2.70 | |
| C | .142 | .165 | 3.60 | 4.20 | |
| D | .179 | .195 | 4.55 | 4.95 | |
| E | .019 | .031 | 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





Micro Commercial Components

Ordering Information

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

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

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