

## Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Surge Current Capability

## Maximum Ratings

- Operating Junction Temperature Range(LMB24S): -55°C to +125°C
- Operating Junction Temperature Range(LMB26S~LMB210S): -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 25°C/W Junction to Lead
- Typical Thermal Resistance: 62.5°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|----------------------------------------|---------------------|-----------------------------|
| LMB24S          | LMB24S         | 40V                                    | 28V                 | 40V                         |
| LMB26S          | LMB26S         | 60V                                    | 42V                 | 60V                         |
| LMB210S         | LMB210S        | 100V                                   | 70V                 | 100V                        |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

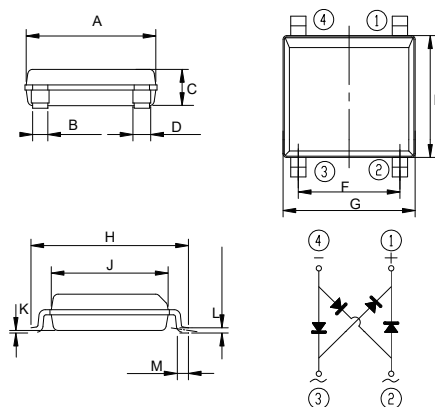
|                                                         |             |                                                                                                                                            |                                                                                                                                                                                                                |
|---------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 2.0A                                                                                                                                       | See Fig1                                                                                                                                                                                                       |
| Peak Forward Surge Current                              | $I_{FSM}$   | 50A                                                                                                                                        | 8.3ms, Half Sine                                                                                                                                                                                               |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | LMB24S: 0.50V<br>0.40V(Typ.)<br>LMB26S: 0.50V(Typ.)<br>0.70V<br>0.47V(Typ.)<br>LMB210S: 0.59V(Typ.)<br>0.85V<br>0.71V(Typ.)<br>0.80V(Typ.) | $I_{FM} = 1A; T_A = 25^\circ C$<br>$I_{FM} = 2A; T_A = 25^\circ C$<br>$I_{FM} = 1A; T_A = 25^\circ C$<br>$I_{FM} = 2A; T_A = 25^\circ C$<br>$I_{FM} = 1A; T_A = 25^\circ C$<br>$I_{FM} = 2A; T_A = 25^\circ C$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$       | LMB24S~LMB26S: 0.5mA<br>LMB210S: 0.1mA                                                                                                     | $T_A = 25^\circ C$                                                                                                                                                                                             |

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

2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

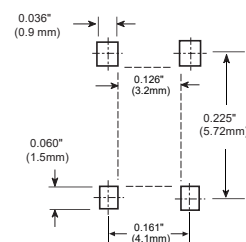
# 2 Amp Surface Mount Schottky Bridge Rectifier 40 to 100 Volts

## LMBS-1



| DIM | INCHES |       | MM   |      | NOTE |
|-----|--------|-------|------|------|------|
|     | MIN    | MAX   | MIN  | MAX  |      |
| A   | 0.197  | 0.205 | 4.90 | 5.20 |      |
| B   | 0.024  |       | 0.60 |      |      |
| C   | ---    | 0.059 | ---  | 1.50 |      |
| D   | 0.024  | 0.032 | 0.60 | 0.80 |      |
| E   | ---    | 0.189 | ---  | 4.80 |      |
| F   | 0.150  | 0.165 | 3.80 | 4.20 |      |
| G   | ---    | 0.209 | ---  | 5.30 |      |
| H   | 0.236  | 0.252 | 6.00 | 6.60 |      |
| J   | 0.177  | 0.185 | 4.30 | 4.70 |      |
| K   | 0.0009 | 0.004 | 0.02 | 0.21 |      |
| L   | 0.006  | 0.012 | 0.15 | 0.30 |      |
| M   | 0.017  | 0.031 | 0.25 | 0.80 |      |

## Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

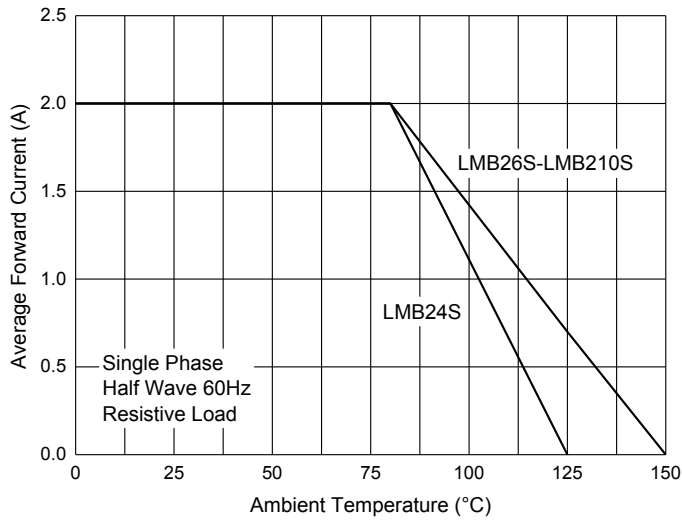


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

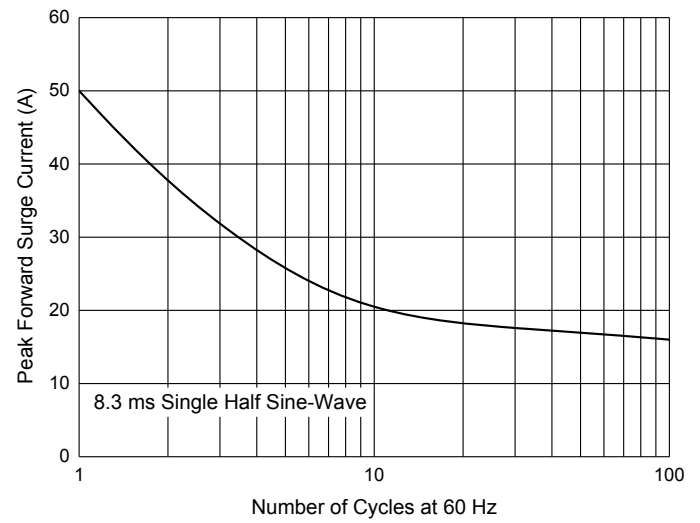


Fig. 3 - Typical Instantaneous Forward Characteristics

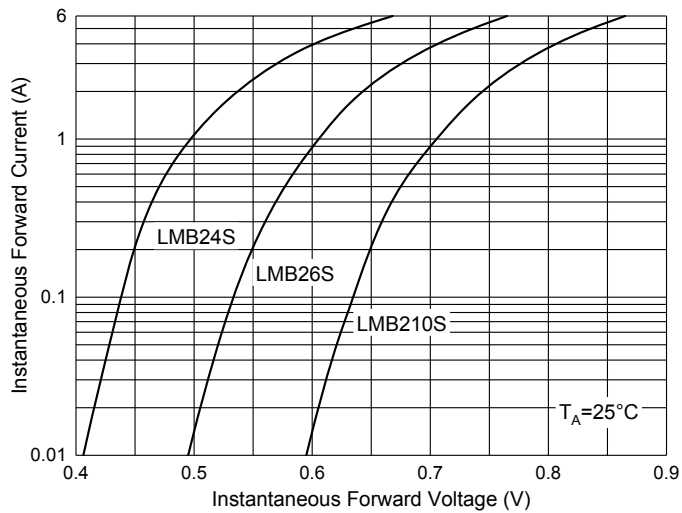
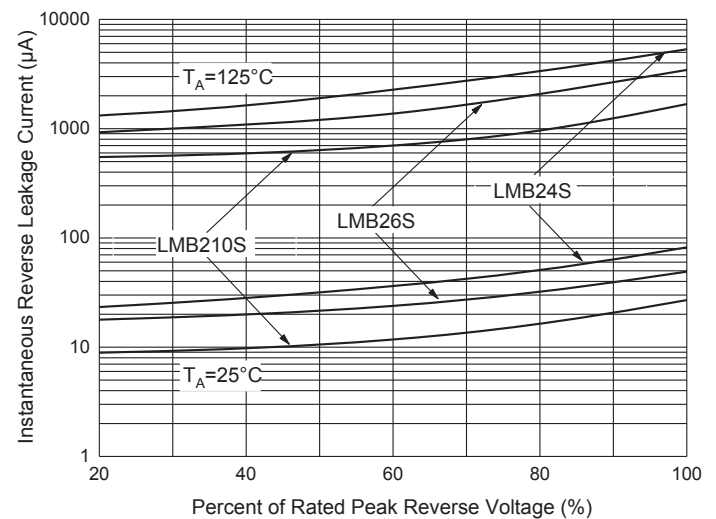


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device         | Packing              |
|----------------|----------------------|
| Part Number-TP | Tape&Reel:5Kpcs/Reel |

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