

## 20A SCHOTTKY BARRIER RECTIFIER

## General Description

MBRD2060CTLV Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

## Product Summary

| $V_{RRM}$ | $V_F$ | $I_{F(AV)}$ |
|-----------|-------|-------------|
| 60V       | 0.6V  | 20A         |

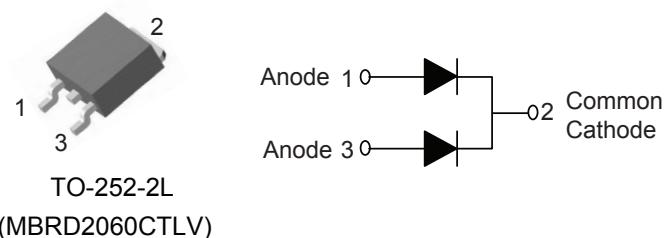
## Applications

- Low Voltage High Frequency Invers Circuit.
- Low Voltage High Frequency Switching Power Supply.
- Low Voltage Continued Circuit and Protection Circuit.

## Features

- Common Cathode
- Low Leakage Current
- RoHS Compliant
- High Junction Temperature Capability.
- High Current Capability, High Efficiency

## TO-252-2L Pin Configuration



## Absolute Maximum Ratings

| Symbol      | Parameter   | Rating                     | Units |
|-------------|---|----------------------------|-------|
| $V_{RRM}$   | Peak Repetitive Reverse Voltage   | 60                         | V     |
| $I_{F(AV)}$ | Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle         | 10 (Per Leg)<br>20 (Total) | A     |
| $I_{FSM}$   | Forward Peak Surge Current(Rated Load 8.3ms Half Mssine Wave-According to JEDEC Method) | 180x2                      | A     |
| $T_J$       | Operating Junction Temperature  | 150                        | °C    |
| $T_{STG}$   | Storage Temperature   | -40 to 150                 | °C    |

## Thermal Data

| Symbol          | Parameter                                     | Typ. | Max. | Unit |
|-----------------|---|------|------|------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case(Per Leg) | 3    | ---  | °C/W |

## Electrical Characteristics

| Symbol | Parameter                         | Conditions  | Min. | Typ. | Max.  | Unit |
|--------|-----------------------------------|---|------|------|-------|------|
| $V_F$  | Forward Voltage Drop per diode    | $I_F=10A$ ( $I_{FAV}=10A \times 2$ ), $T_J=25^\circ C$  | ---  | 0.52 | 0.6   | V    |
|        |                                   | $I_F=10A$ ( $I_{FAV}=10A \times 2$ ), $T_J=125^\circ C$ | ---  | ---  | 0.55  |      |
| $I_R$  | Reverse Leakage Current per diode | $V_R=60V$ , $T_J=25^\circ C$                            | ---  | ---  | 0.05  | mA   |
|        |                                   | $V_R=60V$ , $T_J=100^\circ C$                           | ---  | ---  | 10.00 | mA   |

## Typical Performance Characteristics

