

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Loss, High Efficiency
- Low VF,Low IR
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.0°C/W Junction to Case

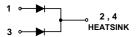
| MCC<br>Part Number | Device<br>Marking | Maximum<br>Recurrent<br>Peak Reverse<br>Voltage | Maximum<br>RMS<br>Voltage | Maximum<br>DC<br>Blocking<br>Voltage |
|--------------------|-------------------|---|---------------------------|--------------------------------------|
| MBRBL20200CT       | MBRBL20200CT      | 200V  | 140V                      | 200V                                 |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

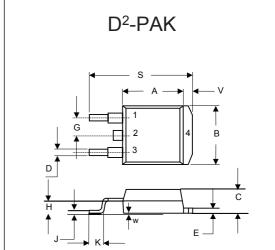
| Average Forward<br>Current                                    | $I_{F(AV)}$      | 20A                        | T <sub>C</sub> =100°C                         |
|---|------------------|----------------------------|---|
| Peak Forward Surge<br>Current                                 | I <sub>FSM</sub> | 150A                       | 8.3ms,Half Sine                               |
| Instantaneous<br>Forward Voltage                              | V <sub>F</sub>   | 0.82V(Typ.)<br>0.88V(Max.) | I <sub>FM</sub> =10A;<br>T <sub>A</sub> =25°C |
| Maximum DC Reverse<br>Current at Rated DC<br>Blocking Voltage | I <sub>R</sub>   | 0.05mA<br>10mA             | T <sub>A</sub> =25°C<br>T <sub>A</sub> =125°C |

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

#### **Internal Structure:**

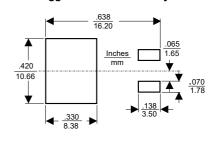


# 20 Amp Schottky Barrier Rectifier 200 Volts



| DIMENSIONS |       |        |       |       |      |
|------------|-------|--------|-------|-------|------|
| DIM        | INC   | INCHES |       | М     | NOTE |
| DIIVI      | MIN   | MAX    | MIN   | MAX   | NOTE |
| Α          | 0.331 | 0.370  | 8.40  | 9.40  |      |
| В          | 0.378 | 0.417  | 9.60  | 10.60 |      |
| С          | 0.165 | 0.189  | 4.20  | 4.80  |      |
| D          | 0.027 | 0.037  | 0.68  | 0.94  |      |
| Е          | 0.045 | 0.055  | 1.14  | 1.40  |      |
| G          | 0.0   | 010    | 2.    | 54    | TYP. |
| Ι          | 0.096 | 0.134  | 2.43  | 3.40  |      |
| J          | 0.011 | 0.025  | 0.28  | 0.64  |      |
| K          | 0.071 | 0.131  | 1.80  | 3.32  |      |
| S          | 0.575 | 0.625  | 14.60 | 15.87 |      |
| V          | 0.042 | 0.058  | 1.07  | 1.47  |      |
| W          | 0.000 | 0.010  | 0.00  | 0.25  |      |

#### Suggested Solder Pad Layout





### **Curve Characteristics**

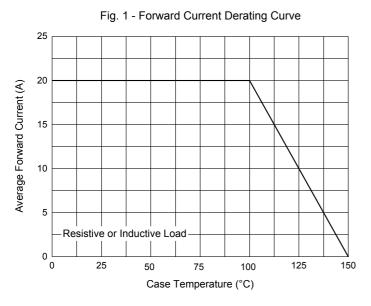


Fig. 3 - Typical Instantaneous Forward Characteristics

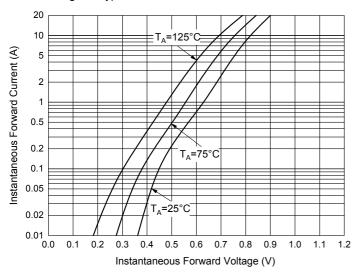
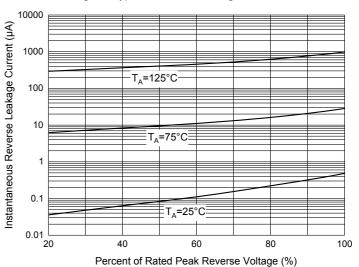


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

175
150
150
100
75
50
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





### **Ordering Information**

| Device         | Packing                |  |
|----------------|------------------------|--|
| Part Number-TP | Tape&Reel: 800pcs/Reel |  |
| Part Number-BP | Tube: 5Kpcs/Ctn        |  |

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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