



## Schottky Diodes

### Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced rugged

• **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

- **Polarity:** As marked

### ■Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified

| PARAMETER                                                                              | SYMBOL           | UNIT             | MBRU20100CTA |
|----------------------------------------------------------------------------------------|------------------|------------------|--------------|
| Device marking code                                                                    |                  |                  | MBRU20100CTA |
| Repetitive Peak Reverse Voltage                                                        | VRRM             | V                | 100          |
| Average Rectified Output Current @60Hz sine wave, R-load, T <sub>a</sub> =25           | I <sub>O</sub>   | A                | 20           |
| Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T <sub>a</sub> =25 | I <sub>FSM</sub> | A                | 250          |
| Current Squared Time @1ms≤t<8.3ms T <sub>j</sub> =25                                   | I <sup>2</sup> t | A <sup>2</sup> s | 262          |
| Storage Temperature                                                                    | T <sub>stg</sub> |                  | -55 ~ +150   |
| Junction Temperature                                                                   | T <sub>j</sub>   |                  |              |

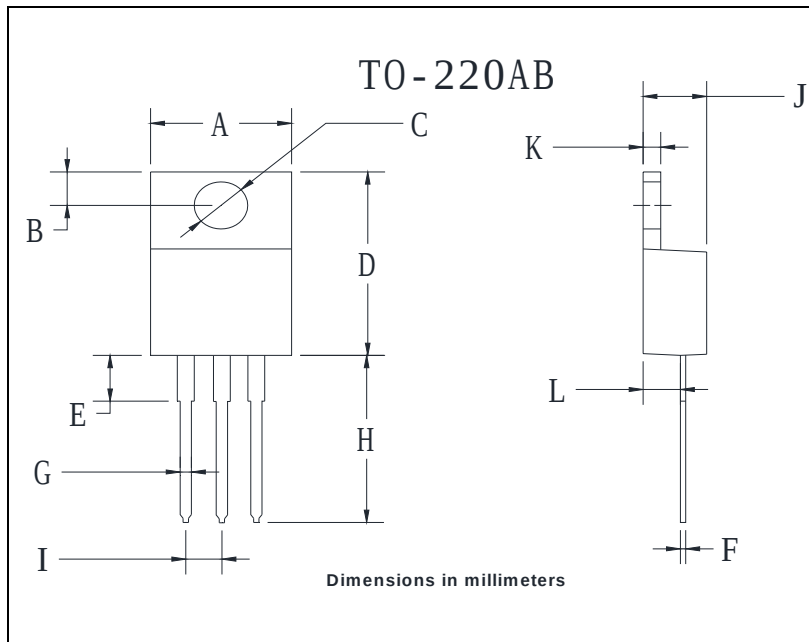
|                                                                   |                                        |    | CONDITION S            | MBR U 20 1 00CTA |
|-------------------------------------------------------------------|----------------------------------------|----|------------------------|------------------|
| Maximum instantaneous forward voltage drop per diode              | V <sub>FM</sub>                        | V  | I <sub>FM</sub> =10.0A | 0.65             |
| Maximum DC reverse current at rated DC blocking voltage per diode | I <sub>RRM1</sub><br>I <sub>RRM2</sub> | mA | V <sub>RM</sub> =VRRM  | 0.2              |

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant





## ■Outline Dimensions



| TO-220AB |       |       |
|----------|-------|-------|
| Dim      | Min   | Max   |
| A        | 9.95  | 10.35 |
| B        | 2.55  | 2.95  |
| C        | 3.8   | 4.0   |
| D        | 14.95 | 15.25 |
| E        | 3.75  | 4.25  |
| F        | 0.26  | 0.5   |
| G        | 0.68  | 0.94  |
| H        | 13.4  | 13.9  |
| I        | 2.35  | 2.65  |
| J        | 4.38  | 4.78  |
| K        | 1.14  | 1.4   |
| L        | 2.37  | 2.79  |



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