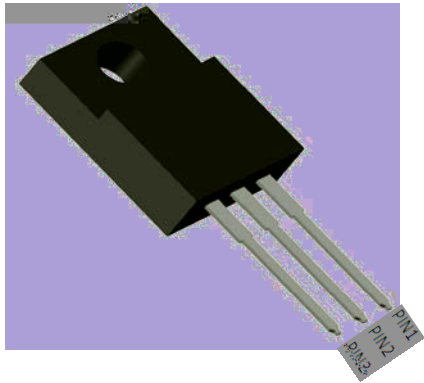


## Schottky Diodes



### 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 rating, RoHS-compliant

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

### ■Maximum Ratings ( $T_a=25$ Unless otherwise specified)

| PARAMETER                                                                     | SYMBOL | UNIT             | MBRU40100FCT |
|-------------------------------------------------------------------------------|--------|------------------|--------------|
| Device marking code                                                           |        |                  | MBRU40100FCT |
| Repetitive Peak Reverse Voltage                                               | VRRM   | V                | 100          |
| Average Rectified Output Current @60Hz sine wave, R-load, $T_c=40$            | IO     | A                | 40           |
| Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$  | IFSM   | A                | 300          |
| Current Squared Time @1ms≤t≤8.3ms $T_j=25$                                    | $I^2t$ | A <sup>2</sup> s | 373          |
| Typical junction capacitance @ 1MHz and Applied Reverse Voltage of 4.0 V.D.C. | Cj     | nF               | 1.05         |
| Storage Temperature                                                           | Tstg   |                  | -55 ~ +150   |
| Junction Temperature                                                          | Tj     |                  | -55 ~ +150   |

### ■Electrical Characteristics $T_a=25$ Unless otherwise specified

| PARAMETER                                                         | SYMBOL | UNIT | TEST CONDITIONS                    | MBRU40100FCT |
|-------------------------------------------------------------------|--------|------|------------------------------------|--------------|
| Maximum instantaneous forward voltage drop per diode              | VFM    | V    | IFM=20.0A                          | 0.71         |
| Maximum DC reverse current at rated DC blocking voltage per diode | IRRM1  | mA   | VRM=VRRM<br>$T_a=25$<br>$I_{R M2}$ | 100          |

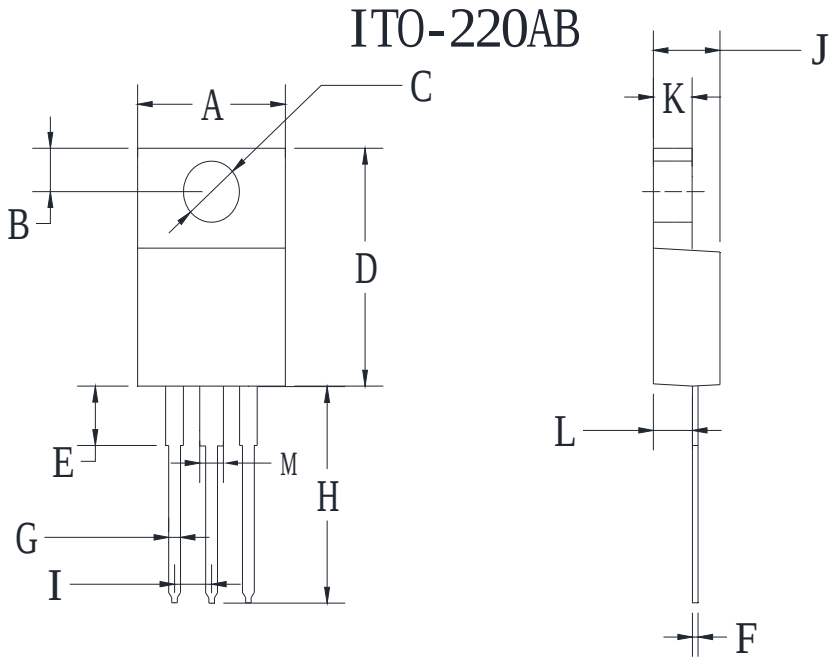
Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS





## ■Outline Dimensions



| ITO-220AB |       |       |
|-----------|-------|-------|
| Dim       | Min   | Max   |
| A         | 9.8   | 10.2  |
| B         | 2.25  | 2.75  |
| C         | 2.95  | 3.45  |
| D         | 14.75 | 15.25 |
| E         | 3.05  | 3.95  |
| F         | 0.45  | 0.75  |
| G         | 0.45  | 0.75  |
| H         | 13.4  | 14.2  |
| I         | 2.35  | 2.75  |
| J         | 4.3   | 4.8   |
| K         | 2.58  | 2.82  |
| L         | 2.58  | 2.82  |
| M         | 1.47  | 1.77  |



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