

# MBR840FCT~MBR8200FCT

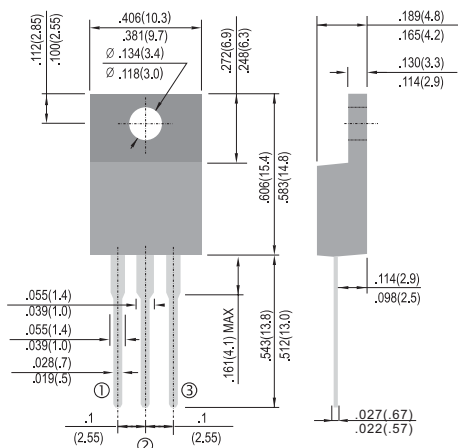
## SCHOTTKY BARRIER RECTIFIER

**VOLTAGE 40 to 200 Volts CURRENT 8 Ampere**



ITO-220AB

Unit: inch ( mm )

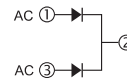


### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling , and polarity protection applications.
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: ITO-220AB molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

| PARAMETER   | SYMBOL          | MBR840FCT   | MBR845FCT | MBR850FCT | MBR860FCT | MBR880FCT   | MBR890FCT | MBR8100FCT | MBR8150FCT | MBR8200FCT | UNITS       |                 |
|---|-----------------|-------------|-----------|-----------|-----------|-------------|-----------|------------|------------|------------|-------------|-----------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$       | 40          | 45        | 50        | 60        | 80          | 90        | 100        | 150        | 200        | V           |                 |
| Maximum RMS Voltage   | $V_{RMS}$       | 28          | 31.5      | 35        | 42        | 56          | 63        | 70         | 105        | 140        | V           |                 |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 40          | 45        | 50        | 60        | 80          | 90        | 100        | 150        | 200        | V           |                 |
| Maximum Average Forward (See Figure 1)  | $I_{F(AV)}$     | 8           |           |           |           |             |           |            |            |            | A           |                 |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) | $I_{FSM}$       | 150         |           |           |           |             |           |            |            |            | A           |                 |
| Maximum Forward Voltage at 4.0A   | $V_F$           | 0.55        | 0.7       |           | 0.80      |             |           | 0.90       |            | V          |             |                 |
| Maximum DC Reverse Current $T_j=25^{\circ}C$ at Rated DC Blocking Voltage $T_j=100^{\circ}C$      | $I_R$           |             |           |           |           |             | 0.2       |            |            |            | mA          |                 |
| Typical Thermal Resistance  | $R_{\theta JC}$ |             |           |           |           |             | 3         |            |            |            |             | $^{\circ}C / W$ |
| Operating Junction and Storage Temperature Range  | $T_j, T_{STG}$  | -55 to +125 |           |           |           | -55 to +155 |           |            |            |            | $^{\circ}C$ |                 |

NOTES : Both Bonding and Chip structure are available.

# MBR840FCT~MBR8200FCT

## RATING AND CHARACTERISTIC CURVES

