

## DATA SHEET

### SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 200 Volts

**CURRENT** 10.0Amperes

**ITO-220AB**

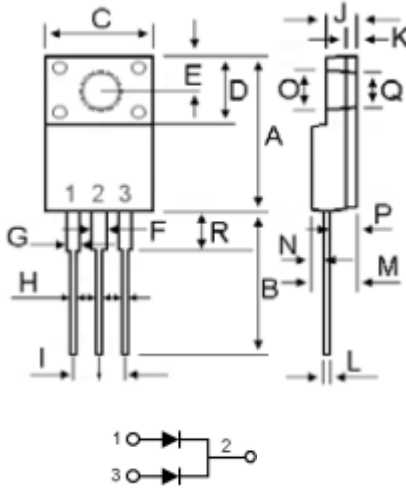
**Unit:mm**

#### FEATURES

- Metal of silicon rectifier,majority carrier conducton
- Guard-Ring for Stress Protection.
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

#### MECHANICAL DATA

- Case : ITO-220AB molded plastic
- Polarity : As marked on the body
- Mounting position : Any



| DIM | MILLIMETERS |       |
|-----|-------------|-------|
|     | MIN         | MAX   |
| A   | 15.67       | 16.07 |
| B   | 12.90       | 13.30 |
| C   | 9.96        | 10.36 |
| D   | 6.50        | 6.90  |
| E   | 2.65        | 2.75  |
| F   | 1.20        | 1.24  |
| G   | 1.26        | 1.46  |
| H   | 0.70        | 0.90  |
| I   | 2.34        | 2.74  |
| J   | 2.32        | 2.72  |
| K   | 0.60        | 0.90  |
| L   | 0.45        | 0.60  |
| M   | 4.53        | 4.93  |
| N   | 1.30        | 1.70  |
| O   | 3.35        | 3.45  |
| P   | 2.56        | 2.96  |
| Q   | 3.15        | 3.25  |
| R   | 2.20        | 2.45  |



In compliance with EU RoHS 2002/95/EC directives

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60HZ, resistive or inductive load.  
 For capacitive load, derate current by 20%

| CHARACTERISTICS  | SYMBOL  |          |    | MBR10200FCT | UNIT |
|--|---------|----------|----|-------------|------|
| Maximum Recurrent Peak Reverse Voltage   | VRRM    |          |    | 200         | V    |
| Maximum RMS Voltage  | VRMS    |          |    | 140         | V    |
| Maximum DC Blocking Voltage  | Vcc     |          |    | 200         | V    |
| Average Rectifier Forward Current ( per diode )  | IF (AV) |          |    | 5           | A    |
| Total Device (Rated VR) @TC=125°C  |         |          |    | 10          |      |
| Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz) | IFSM    |          |    | 125         | A    |
| Maximum Instantaneous Forward Voltage  | IF=5A   | Tc=25°C  | VF | 0.95        | V    |
|  |         | Tc=125°C |    | 0.85        |      |
| Instantaneous Reverse Current  | AT VRM  | Tc=25°C  | IR | 0.05        | MA   |
|  |         | Tc=125°C |    | 15          |      |
| Typical Thermal Resistance   | R0JC    |          |    | 3.8         | °C/W |
| Operating Temperature Range  | TJ      |          |    | -55to+175   | °C   |
| Storage Temperature Range  | TSTG    |          |    | -55to+175   | °C   |

FIG-1 FORWARD CURRENT DERATING CURVE

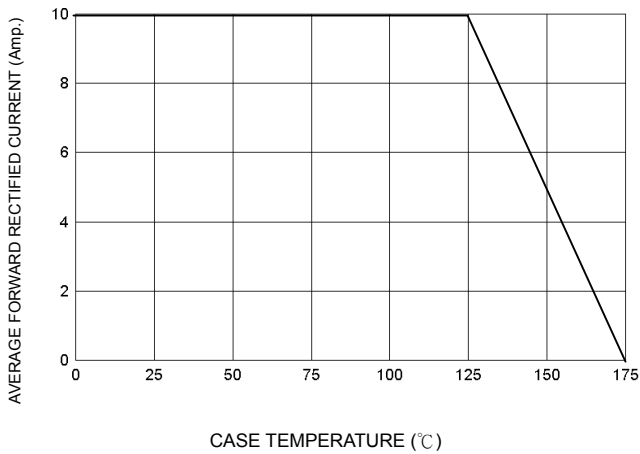


FIG-2 TYPICAL FORWARD CHARACTERISTICS

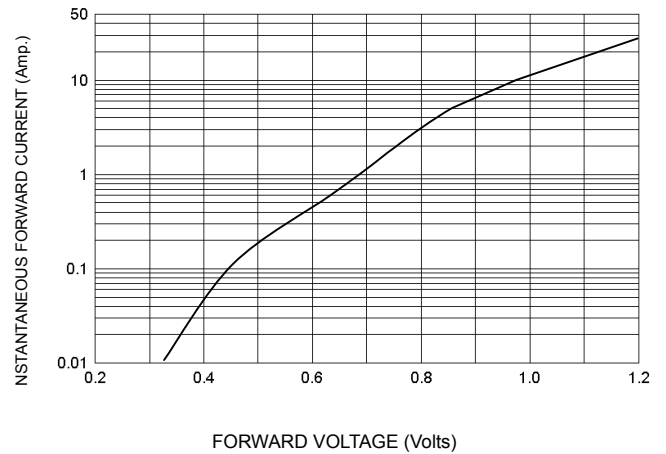


FIG-3 TYPICAL REVERSE CHARACTERISTICS

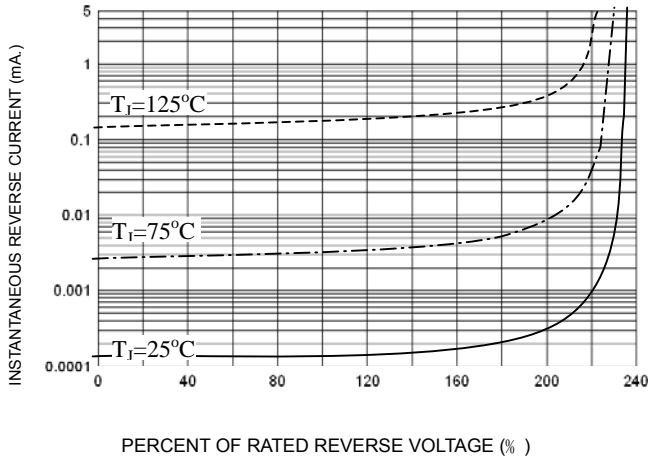


FIG-4 TYPICAL JUNCTION CAPACITANCE

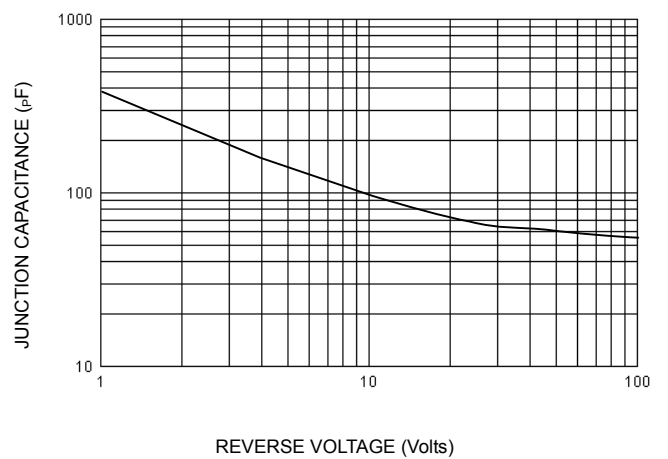


FIG-5 PEAK FORWARD SURGE CURRENT

