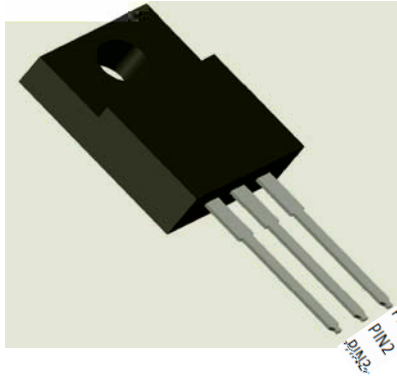




- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- So  $T_a=25$  ■ Maximum  $T_a=85$  Unless otherwise specified



| Device marking code | MBR30100FCT | MBR30150FCT | MBR30200FCT |
|---------------------|-------------|-------------|-------------|
|---------------------|-------------|-------------|-------------|

|                      |                  |                  |            |
|----------------------|------------------|------------------|------------|
|                      | $t$              | A <sup>2</sup> s | 259        |
| Storage Temperature  | T <sub>stg</sub> |                  | -55 ~ +175 |
| Junction Temperature | T <sub>j</sub>   |                  | -55 ~ +175 |

■  $T_a=25$  Unless otherwise specified

| Maximum instantaneous forward voltage drop per diode              | V <sub>FM</sub>   | V  | I <sub>FM</sub> =15.0A                                    | 0.8 | 0.85 | 0.9 |
|-------------------------------------------------------------------|-------------------|----|-----------------------------------------------------------|-----|------|-----|
| Maximum DC reverse current at rated DC blocking voltage per diode | I <sub>RRM1</sub> | mA | V <sub>RM</sub> =V <sub>R</sub> RM<br>T <sub>a</sub> =25  | 0.1 |      |     |
|                                                                   | I <sub>RRM2</sub> |    | V <sub>RM</sub> =V <sub>R</sub> RM<br>T <sub>a</sub> =125 | 20  |      |     |

■  $T_a=25$  Unless otherwise specified

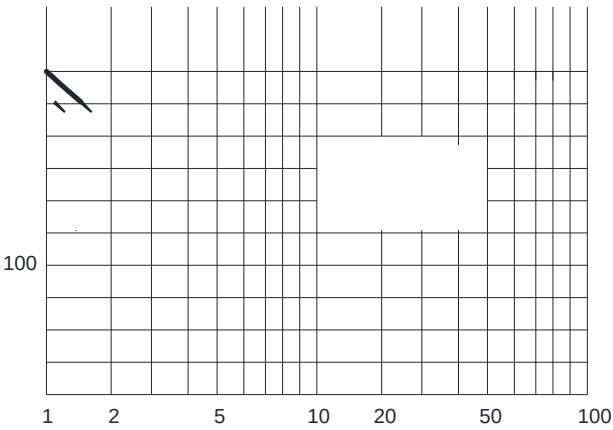
| Thermal Resistance | Between junction and case | R <sub>θJ-C</sub> | W | 4.0 |
|--------------------|---------------------------|-------------------|---|-----|
|--------------------|---------------------------|-------------------|---|-----|



■ (Example)

| MBR30100FCT THRU MBR30200FCT | Approximate 1.6 | 50 | 1000 | 5000 | Tube |
|------------------------------|-----------------|----|------|------|------|

■ (Typical)





| 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  |



The information presented in thi