

30A Schottky Barrier Rectifiers

FEATURES

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

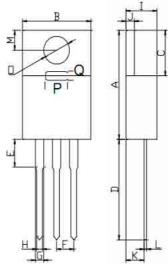
MECHANICAL DATA

• Case :TO-220 molded plastic

• Polarity: As marked on the body

• Mounting position : Any

TO-220 PACKAGE



| DIM | MILL IMETERS | | |
|-----|--------------|--------|--|
| DIM | MIN | MAX | |
| A | 14. 68 | 15. 32 | |
| В | 9. 78 | 10.42 | |
| С | 6.01 | 6. 52 | |
| D | 13. 06 | 14.62 | |
| Е | 3, 57 | 4.07 | |
| F | 2.42 | 2.66 | |
| G | 1. 12 | 1. 35 | |
| Н | 0.72 | 0.96 | |
| I | 4. 22 | 4. 98 | |
| J | 1. 14 | 1. 36 | |
| K | 2. 20 | 2. 97 | |
| L | 0. 33 | 0. 55 | |
| М | 2.48 | 2. 98 | |
| 0 | 3. 70 | 3. 90 | |
| P | 3. 50 | 3.70 | |
| Q | 1. 20 | 1.40 | |



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



Lead Free

| CHARACTERISTICS | SYMBOL | MBR3045CT | UNIT |
|--|--------|------------|------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 45 | V |
| Maximum RMS Voltage | VRMS | 31.5 | V |
| Maximum DC Blocking Voltage | Vcc | 45 | V |
| Maximum Average Forward Rectified Current | I (AV) | 30 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD) | IFSM | 250 | A |
| Maximum Forward Voltage at 15A DC | VF | 0.60 | V |
| Maximum DC Reverse Current @TC=25℃ at Rated DC Blocking Voltage @TC=100℃ | IR | 0. 5 50 | MA |
| Typical Thermal Resistance | ROJC | 3. 0 | °C/W |
| Operating Temperature Range | ТЈ | -55to+150 | $^{\circ}$ |
| Storage Temperature Range | TSTG | -55to+150 | $^{\circ}$ |



RATINGS AND CHARACTERISTIC CURVES

