Schottky Barrier Rectifier multicomp





Features:

- Schottky barrier chip
- Guard ring for over voltage 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-220AB molded plastic Polarity : As marked on the body Weight : 0.08 ounces, 2.24 grams

Mounting Position : Any

Reverse Voltage : 40 to 100 Volts Forward Current : 20 Amperes

Maximum Ratings and Electrical Characteristics:

Rating 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 | MBR2040CT | MBR2050CT | MBR2060CT | MBR20100CT | Unit |
|---|--------|-----------------------------------|-----------|----------------------|------------------------------|-------|
| Max. Recurrent Peak Reverse Voltage | Vrrm | 40 | 50 | 60 | 100 | |
| Max. RMS Voltage | VRMS | 28 35 42 70 | | | 70 | 7 v [|
| Max. DC Blocking Voltage | VDC | 40 | 50 | 60 | 100 | |
| Max. Average Forward Rectified Current | l(AV) | 20 | | | | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | IFSM | 150 | | | A | |
| Peak Forward Voltage (Note1) | VF | 0. 5 7 0.84 0.72 | 0. | .8 .7 95 85 | 0.85 0.75 0.95 0.85 | V |
| Max. DC Reverse Current TJ=25°C Rated DC Blocking Voltage TJ=125°C | lr | 0.1 15 | 0 1 | .1 0 | 0.1 7.5 | mA |
| Typical Junction Capacitance (Note 2) | Сл | 400 320 | | pF | | |
| Typical Thermal Resistance (Note 3) | Rejc | 1.5 3.5 | | | °C/W | |
| Operating Temperature Range | TJ | -55 to +150 | | | °C | |
| Storage Temperature Range | Тѕтс | -55 to +175 | | | °C | |

Notes:

- 1. 300µs pulse width,2% duty cycle.
- 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case.
- 4. The typical data above is for reference only

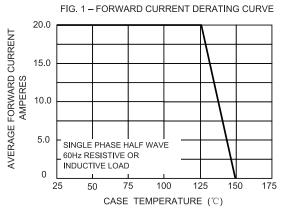
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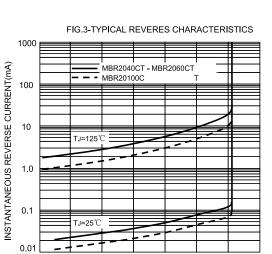


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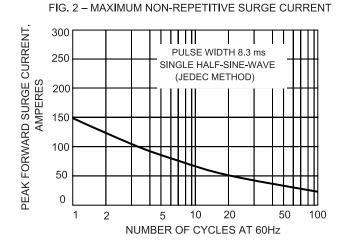


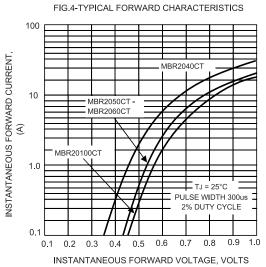
Ratings and Characteristic Curves

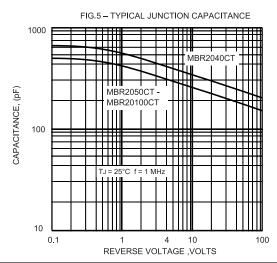




PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)







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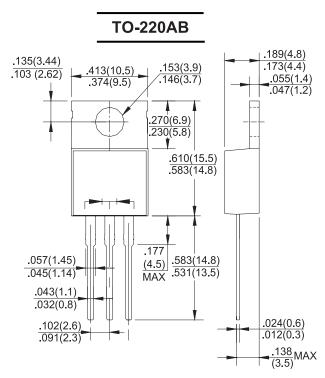


02/11/16 V1.0

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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

| Description | Part Number | |
|------------------------------|-------------|--|
| | MBR2040CT | |
| Sabattley Parriar Poetifiers | MBR2050CT | |
| Schottky Barrier Rectifiers | MBR2060CT | |
| | MBR20100CT | |

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