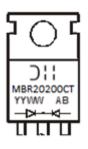


Marking Information



MBR20200CT = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last Two Digits of Year (ex: 17 = 2017) WW = Week (01 to 53)



MBRF20200CT = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last Two Digits of Year (ex: 17 = 2017) WW = Week (01 to 53)

Maximum Ratings (Per Leg) (@T_A = +25°C, unless otherwise specified.)

| Single phase, half wave, 60Hz, resistive or indu For capacitive load, derate current by 20%. | | \wedge | | |
|---|----------------------|---------------------|----------|------|
| Characteristic | | Symbol | Value | Unit |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | | Vrrm Vrwm Vrm | 200 | V |
| Average Rectified Output Current | (Per Leg) (Total) | lo | 10 20 | A |
| Non-Repetitive Peak Forward Surge Current 8 Single Half Sine-Wave Superimposed on Rate | | Ігѕм | 170 | А |

Thermal Characteristics (Per Leg)

| Characteristic | Symbol | Value | Unit |
|--|----------|-------------|------|
| Typical Thermal Resistance, Junction to Case (Note 5) Package = TO220AB (Type C) Package = ITO220AB (TYPE BR) | Rejc | 3 5 | °C/W |
| Typical Thermal Resistance, Junction to Ambient (Note 5) Package = TO220AB (Type C) Package = ITO220AB (TYPE BR) | Reja | 15 25 | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to +175 | °C |

Electrical Characteristics (Per Leg) (@TA = +25°C, unless otherwise specified.)

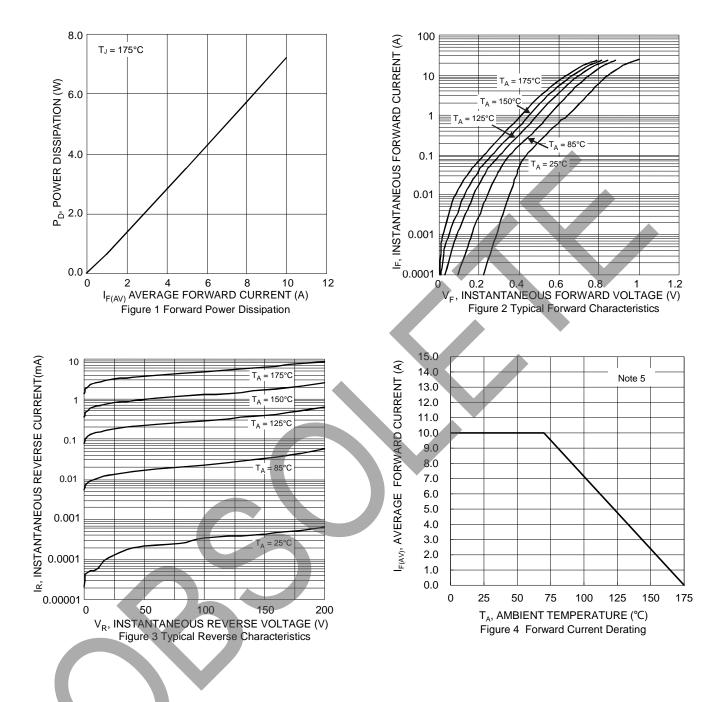
| Characteristic | Symbol | Min | Тур | Max | Unit | Test Condition |
|--------------------------|--------|-----|------|------|------|--|
| Forward Voltage Drop | VF | _ | 0.85 | 0.89 | V | IF = 10A, TJ = +25°C |
| | VF | — | — | 0.75 | | IF = 10A, TJ = +125°C |
| Leakage Current (Note 6) | 1- | _ | _ | 0.1 | MA | V _R = 200V, T _J = +25°C |
| | IR | — | — | 10 | | V _R = 200V, T _J = +125°C |

5. Device mounted on heat sink (45mm x 20mm x12mm), with minimum recommended pad layout per http://www.diodes.com/package-outlines.html. Notes: 6. Short duration pulse test used to minimize self-heating effect

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MBR20200CT MBRF20200CT

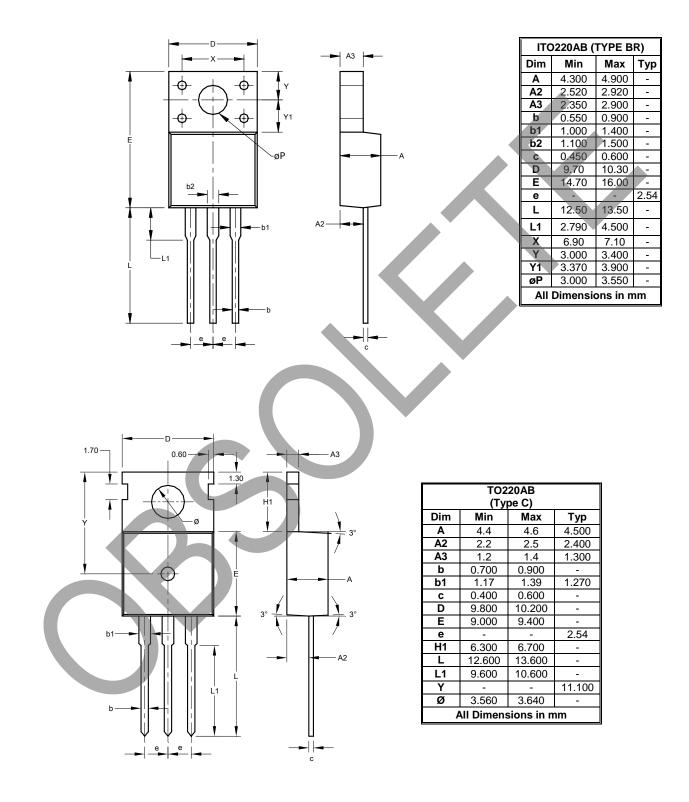


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Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.



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