

RERA16D

Ultra fast Plastic Power Rectifiers

VOLTAGE: 200V

CURRENT:16.0A



PRELIMINARY

FEATURE

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- High voltage and high reliability
- High speed switching
- Low forward voltage

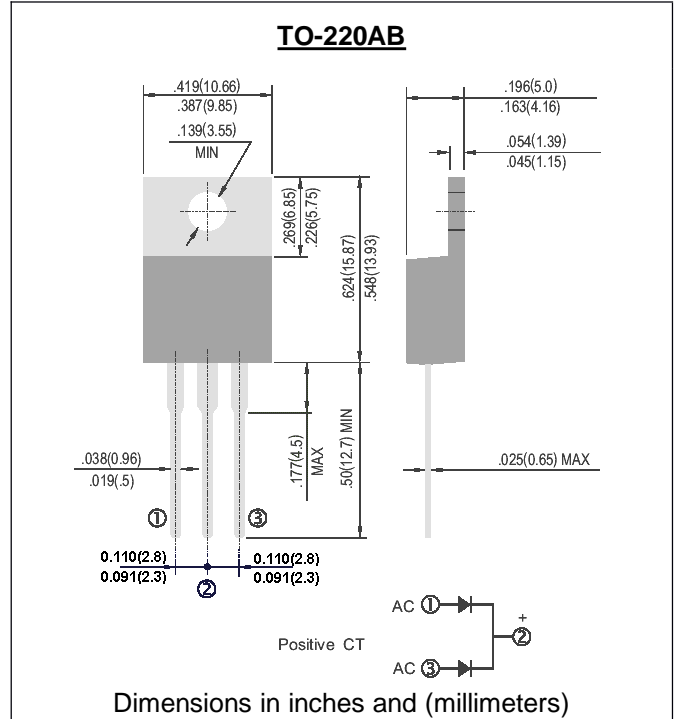
MECHANICAL DATA

Case: JEDEC TO-220 molded plastic body over passivated chip

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

| | SYMBOL | RERA16D | units |
|--|----------------------|-------------|----------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 200 | V |
| Maximum RMS Voltage | V _{rms} | 140 | V |
| Maximum DC blocking Voltage | V _{dc} | 200 | V |
| Maximum Average Forward Rectified at T _c =100°C | I _{f(av)} | 16.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 150 | A |
| Maximum Forward Voltage at rated Forward Current and 25°C at 8A | V _f | 1.0 | V |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 150 | nS |
| Typical thermal resistance junction to case | R _{θ Jc} | 5.0 | °C/W |
| Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C | I _r | 10 100 | μA μA |
| Storage and Operating Temperature Range | T _{stg, Tj} | -55 to +150 | °C |

Note:

1. Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A

RATINGS AND CHARACTERISTIC CURVES

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