

FERP30D

Ultra fast Plastic Rectifiers

VOLTAGE: 200V

CURRENT:30.0A

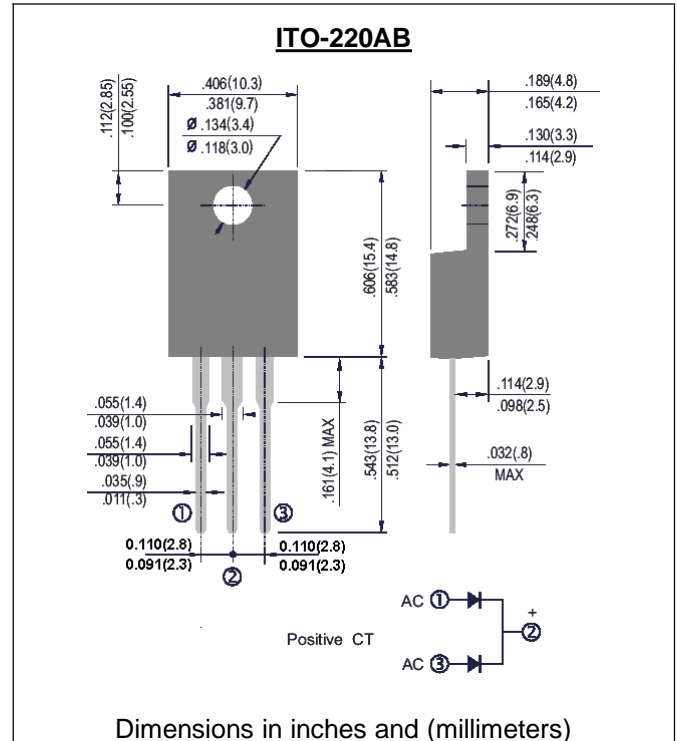


FEATURE

- 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 ITO-220AB molded plastic body over passivated chip
Terminals: Plated Insert leads, solderable per MIL-STD-750, Method 2026
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 | FERP30D | units |
|--|----------|-------------|----------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 200 | V |
| Maximum RMS Voltage | Vrms | 140 | V |
| Maximum DC blocking Voltage | Vdc | 200 | V |
| Maximum Average Forward Rectified at Tc =100°C | If(av) | 30.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | Ifsm | 180 | A |
| Maximum Forward Voltage at Forward Current 15A | Vf | 1.0 | V |
| Maximum Reverse Recovery Time (Note 1) | Trr | 50 | 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 =100°C | Ir | 10 100 | μA μA |
| Storage and Operating Temperature Range | Tstg, Tj | -55 to +150 | °C |

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

RATINGS AND CHARACTERISTIC CURVES FERP30D

