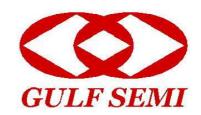
FESP10K

Ultra fast Plastic Power Rectifiers

VOLTAGE: 800V CURRENT: 10.0A



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

MECHANICAL DATA

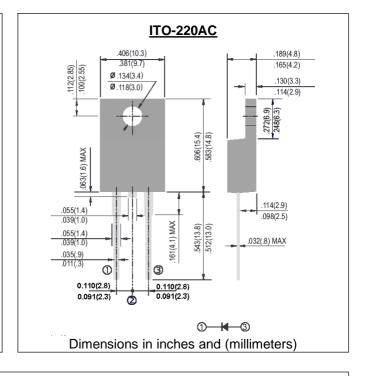
Case: JEDEC ITO-220AC molded plastic body over passivated chip

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)

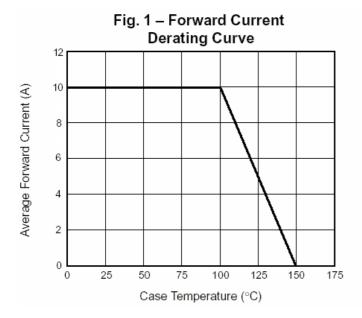
| | SYMBOL | FESP10K | units |
|---|----------|-------------|-------|
| | | | |
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 800 | V |
| Maximum RMS Voltage | Vrms | 560 | V |
| Maximum DC blocking Voltage | Vdc | 800 | V |
| Maximum Average Forward Rectified | If(av) | 10.0 | А |
| at Tc =100°C | | | |
| Peak Forward Surge Current 8.3ms single | Ifsm | 120 | A |
| half sine-wave superimposed on rated load | | | |
| Maximum Forward Voltage at rated Forward | Vf | 2.2 | V |
| Current and 25°C | | | |
| Maximum Reverse Recovery Time (Note 1) | Trr | 70 | nS |
| Typical thermal resistance junction to case | Rth(jc) | 5.0 | €/W |
| Maximum DC Reverse Current Ta =25°C | lr | 10.0 | μΑ |
| at rated DC blocking voltage Ta =125°C | | 100.0 | |
| Storage and Operating Temperature Range | Tstg, Tj | -55 to +150 | °C |

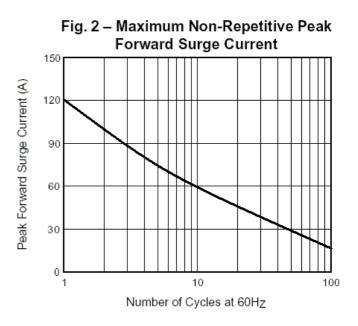
Note:

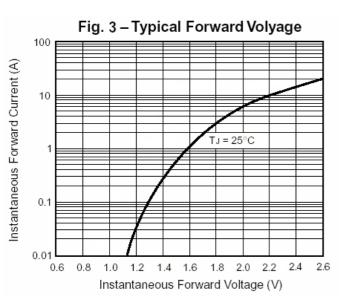
Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

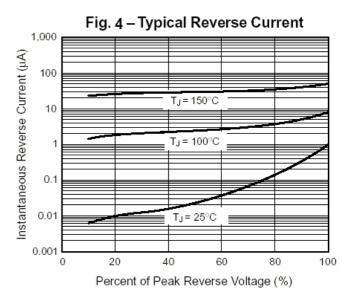
Rev.A1 www.gulfsemi.com

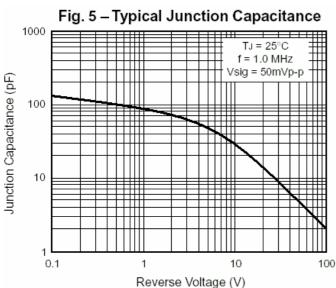
RATINGS AND CHARACTERISTIC CURVES FESP10K











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