FESP10J

Ultra fast Plastic Power Rectifiers

VOLTAGE: 600V

CURRENT:10.0A

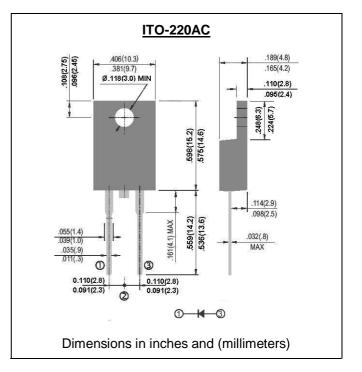
FEATURE

- 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
- Low forward voltage

MECHANICAL DATA

Case: JEDEC TO-220AB 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)

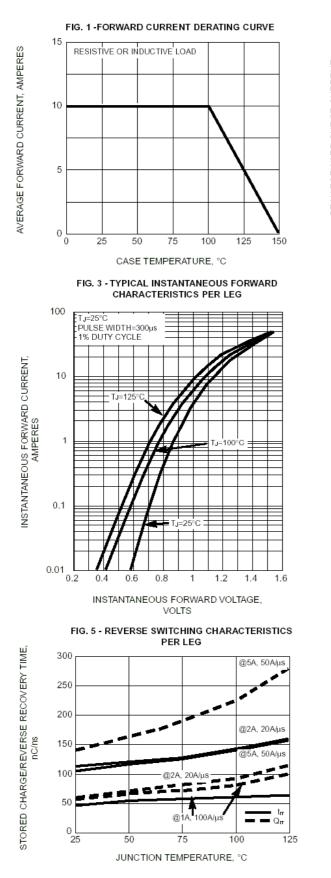
	SYMBOL	FESP10J	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	10.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100	A
Maximum Forward Voltage at rated Forward Current and 25°C at 10A	Vf	1.5	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical thermal resistance junction to case	R θ Jc	2.5	°C/W
Maximum DC Reverse CurrentTa = $25^{\circ}C$ at rated DC blocking voltageTa = $125^{\circ}C$	Ir	5 50	μΑ μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

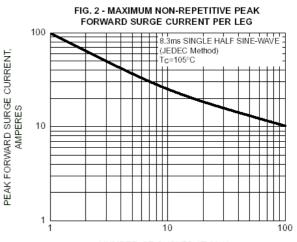
Note:

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

RATINGS AND CHARACTERISTIC CURVES FESP10J

INSTANTANEOUS REVERSE LEAKAGE CURRENT





NUMBER OF CYCLES AT 60 Hz

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

