FESP06G

Ultra fast Plastic Power Rectifiers

VOLTAGE: 400V CURRENT: 6.0A



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

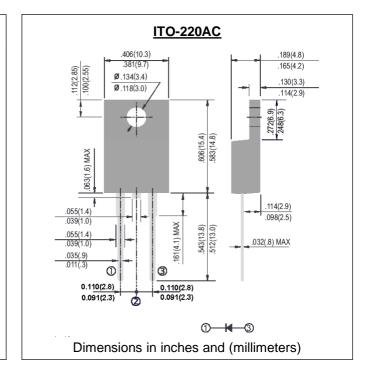
Case: JEDEC ITO-220AC molded plastic body over

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	FESP06G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	V
Maximum RMS Voltage	Vrms	280	V
Maximum DC blocking Voltage	Vdc	400	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	6.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	60	А
Maximum Forward Voltage at rated Forward Current at 6A	Vf	1.4	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical thermal resistance junction to case	R θ Jc	7.0	€\M
Maximum DC Reverse Current Ta =25°C	lr	10	μА
at rated DC blocking voltage Ta =125°C	11	100	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 FESP06G

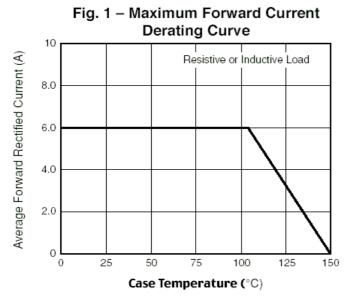
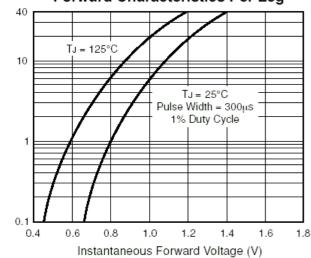
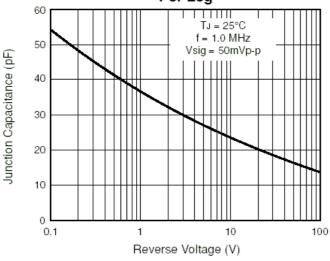


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg



Instantaneous Forward Current (A)

Fig. 5 – Typical Junction Capacitance Per Leg



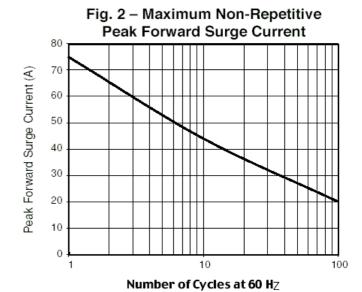
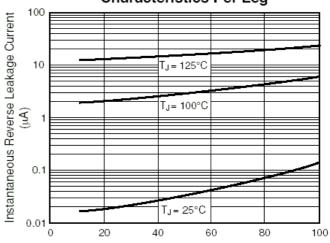


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg



Percent of Rated Peak Reverse Voltage (%)