FE30JPT

Ultra fast Plastic Power Rectifiers

VOLTAGE: 600V

CURRENT:30.0A

FEATURE

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Glass passivated chip junctions

MECHANICAL DATA

passivated chip

Mounting Position: Any

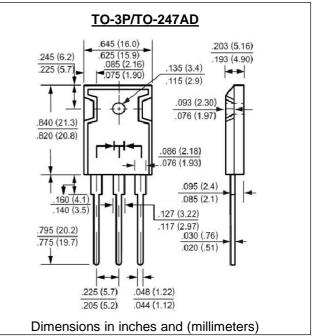
- Superfast recovery times for high efficiency
- · Low forward voltage, high current capability

Case: JEDEC TO-247AD molded plastic body over

Terminals: Plated leads solderable perMIL-STD-750, Method 2026

- Low thermal resistance
- •Low power loss
- High temperature soldering guaranteed





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	FE30JPT	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)	30.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	300	A
Maximum Forward Voltage at rated Forward Current and 25°C at 15A	Vf	1.30	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical thermal resistance junction to case	Rth(jc)	1.0	C/W
Maximum DC Reverse CurrentTa = $25^{\circ}C$ at rated DC blocking voltageTa = $100^{\circ}C$	Ir	10 100	μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	O°

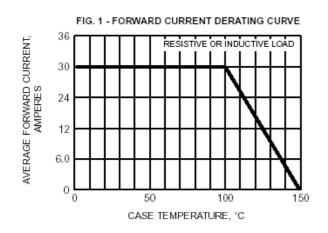
Note:

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

Rev.A1

www.gulfsemi.com

RATINGS AND CHARACTERISTIC CURVES FE30JPT



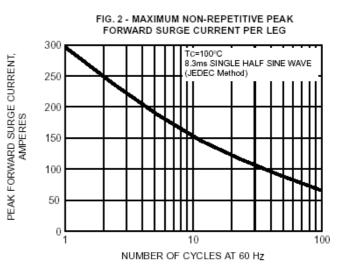


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

