

FEPF30AP THRU FEPF30JP

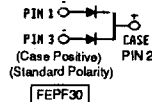
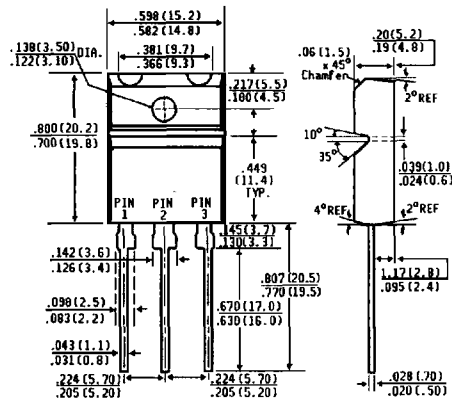
FAST EFFICIENT GLASS PASSIVATED RECTIFIER
Voltage - 50 to 600 Volts Current - 30.0 Amperes

FEATURES

- ◆ Dual rectifier construction, positive centertap
- ◆ Isolated Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- ◆ Glass passivated chip junctions
- ◆ Superfast recovery times, high voltage
- ◆ Low forward voltage, high current capability
- ◆ Low thermal resistance
- ◆ Low power loss, high efficiency
- ◆ High temperature soldering guaranteed: 250°C, .17", (4.3mm) from case for 10 seconds
- ◆ Internal Insulation: 1.5k VRMS



ITO-3P



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: ITO-3P Fully overmolded plastic

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

Mounting Torque: 10 in.-lb. max.

Weight: 0.47 ounce, 13.2 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

		FEPF 30AP	FEPF 30BP	FEPF 30CP	FEPF 30DP	FEPF 30FP	FEPF 30GP	FEPF 30HP	FEPF 30JP	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current at T _C =100°C	I <sub(av)< sub=""></sub(av)<>	30.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300.0								Amps
Maximum Instantaneous Forward Voltage at 15.0A per leg	V _F	0.95			1.3			1.5		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T _C =25°C	I _R	10.0								μA
T _C =100°C		500.0								
Maximum Reverse Recovery Time (NOTE 2) per leg T _J =25°C	T _{RR}	35.0			50.0					ns
Typical Junction Capacitance per leg (NOTE 1)	C _J	175.0				145.0				pf
Thermal Resistance (NOTE 3)	R _{θJC}	2.0								°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to 150								°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, recover to 0.25A.
3. Thermal Resistance from Junction to Case per leg.

RATINGS AND CHARACTERISTIC CURVES FEFP30AP THRU FEFP30JP SERIES

