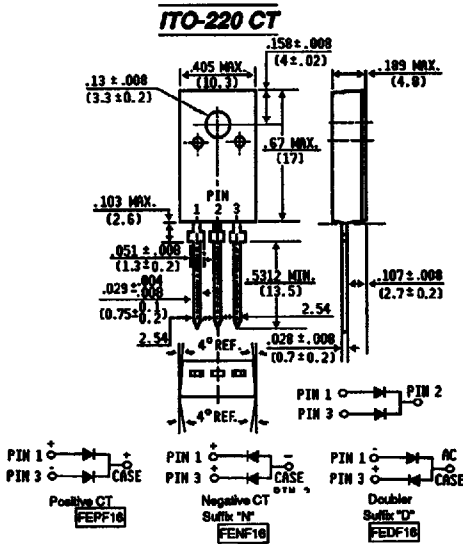
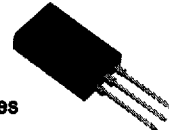


# FEPF16AT THRU FEPF16JT

**FAST EFFICIENT GLASS PASSIVATED RECTIFIER**  
**Voltage - 50 to 600 Volts Current - 16.0 Amperes**

## FEATURES

- ◆ Dual rectifier construction, positive centertap
- ◆ Isolated plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ Low power loss
- ◆ Low forward voltage, high current capability
- ◆ High surge capability
- ◆ Superfast recovery times for high efficiency
- ◆ High temperature soldering guaranteed: 250°C, .25", (6.35mm) from case for 10 seconds
- ◆ Internal insulation: 1.5K VRMS



Dimensions in inches and (millimeters)

## MECHANICAL DATA

- Case:** ITO-220 fully overmolded plastic
- Terminals:** Plated Lead solderable per MIL-STD-202, Method 208
- Polarity:** As marked
- Mounting Position:** Any
- Mounting Torque:** 5 in. - lbs. max.
- Weight:** 0.08 ounce, 2.24 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
 Resistive or inductive load.  
 For capacitive load, derate current by 20%.

		FEPF 16AT	FEPF 16BT	FEPF 16CT	FEPF 16DT	FEPF 16FT	FEPF 16GT	FEPF 16HT	FEPF 16JT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> =100°C	I <sub(av)< sub=""></sub(av)<>	16.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	200.0								Amps
Maximum Instantaneous Forward Voltage at 8.0A per leg	V <sub>F</sub>	0.95		1.3		1.5				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>C</sub> =25°C T <sub>C</sub> =100°C	I <sub>R</sub>	10.0				500.0				µA
Maximum Reverse Recovery Time (NOTE 2) per leg T <sub>J</sub> =25°C	T <sub>RR</sub>	35.0			50.0					nS
Typical Junction Capacitance per leg (NOTE 1)	C <sub>J</sub>	85.0				60.0				pf
Typical Thermal Resistance (NOTE 3)	R <sub>θJC</sub>	2.2								°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150								°C

**NOTES:**

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
2. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, recover to 0.25A.
3. Thermal Resistance from Junction to Case per leg.

**RATINGS AND CHARACTERISTIC CURVES FEFP16AT THRU FEFP16JT SERIES**

