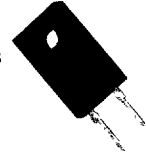


FESF16AT THRU FESF16JT

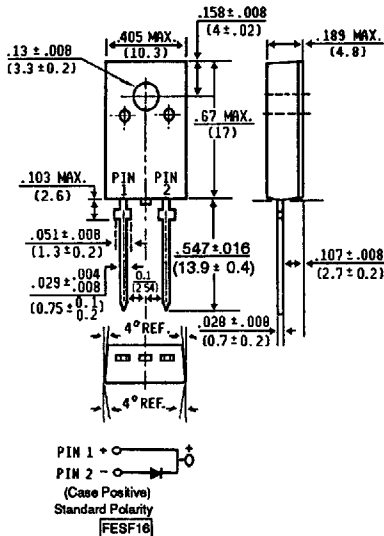
FAST EFFICIENT GLASS PASSIVATED RECTIFIER
Voltage - 50 to 600 Volts Current - 16.0 Amperes

FEATURES

- ◆ 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



ITO-220



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: JEDEC ITO-220 Fully overmolded plastic

Terminals: Plated Lead solderable per MIL-STD-750 Method 2026

Polarity: As marked

Mounting Position: Any

Mounting Torque: 5 in. - lb. 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%.

		FESF SYMBOLS	FESF 16AT	FESF 16BT	FESF 16CT	FESF 16DT	FESF 16FT	FESF 16GT	FESF 16HT	FESF 16JT	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 _(AV)	16.0									Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250.0									Amps	
Maximum Instantaneous Forward Voltage at 16A	V _F	0.975					1.3		1.5		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10.0					500.0					μA
Maximum Reverse Recovery Time (NOTE 2) T _J =25°C	T _{RR}	35.0					50.0				ns	
Typical Junction Capacitance (NOTE 1)	C _J	175.0					145.0				pf	
Typical Thermal Resistance (NOTE 3)	R _{θJC}	1.7									°C/W	
Operating 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.

RATINGS AND CHARACTERISTIC CURVES FESF16AT THRU FESF16JT

