

FERP10F**Ultrafast Plastic Power Rectifiers****VOLTAGE: 300V****CURRENT: 10.0A****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

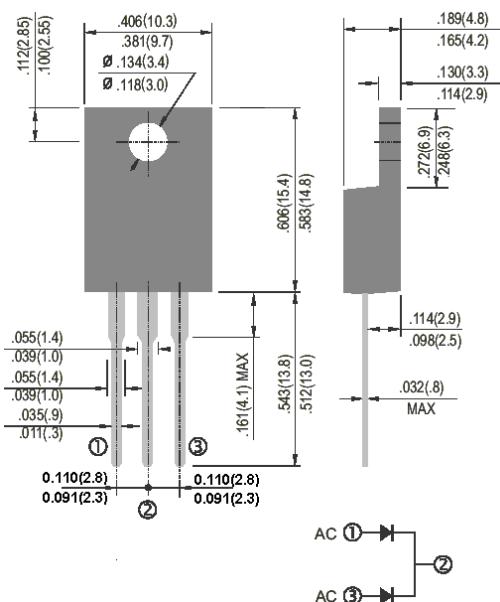
High speed switching

MECHANICAL DATA

Case: JEDEC ITO-220AB molded plastic body over passivated chip

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

Mounting Position: Any

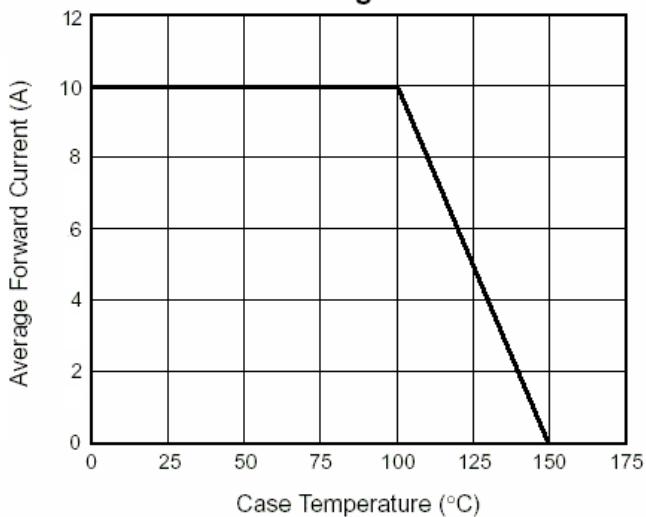
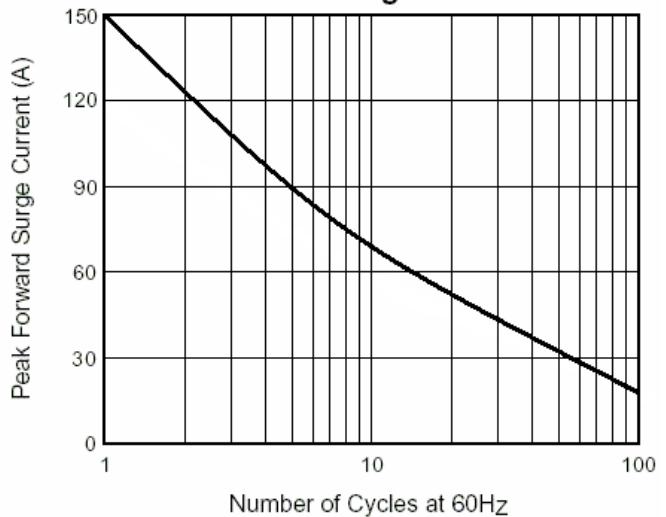
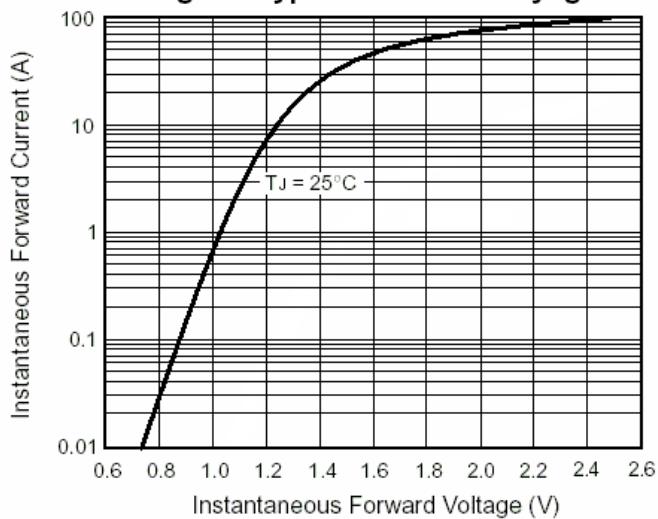
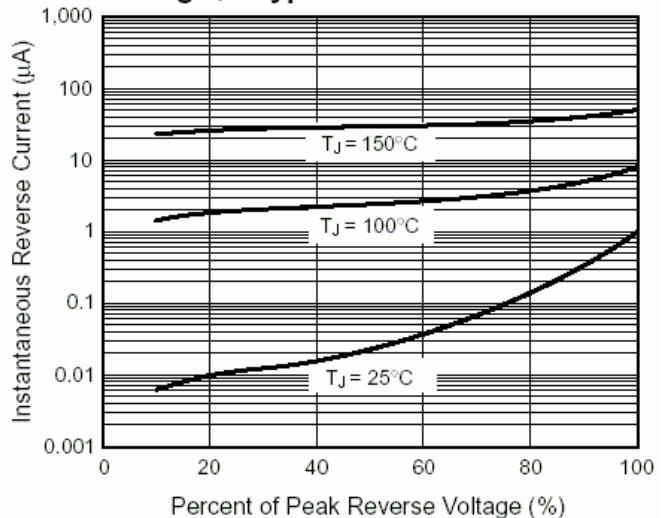
ITO-220AB

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	FERP10F	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	Vrms	210	V
Maximum DC blocking Voltage	Vdc	300	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	A
Maximum Forward Voltage at Forward Current 5A and 25°C	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 500.0	μA
Typical thermal resistance junction to case	Rth(jc)	5.0	°C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C
Note:	Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A		

RATINGS AND CHARACTERISTIC CURVES FERP10F**Fig. 1 – Forward Current Derating Curve****Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current****Fig. 3 – Typical Forward Volage****Fig. 4 – Typical Reverse Current****Fig. 5 – Typical Junction Capacitance**