# FERP20D

# **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 200V CURRENT:20.0A



### **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

Low forward voltage

#### **MECHANICAL DATA**

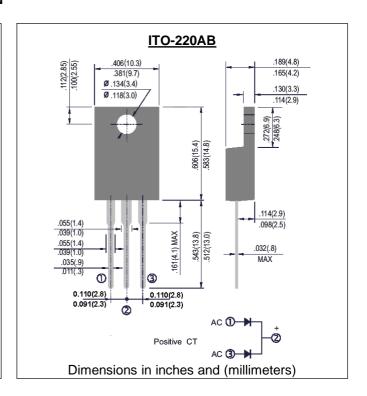
Case: JEDEC ITO-220 molded plastic body over passivated chip

Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

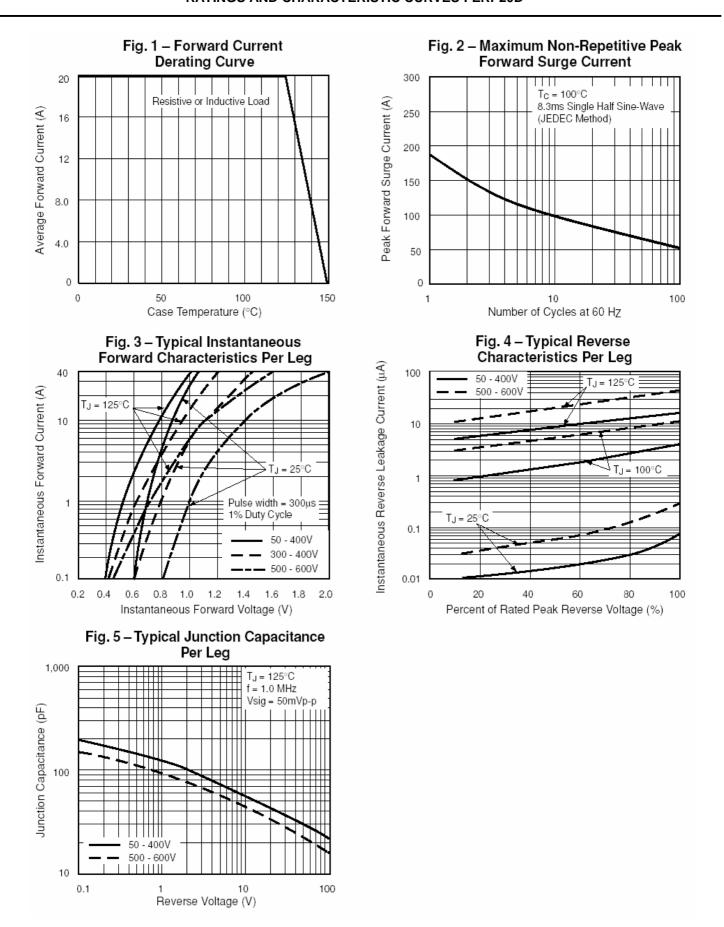
	SYMBOL	FERP20D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	20.0	А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	180	А
Maximum Forward Voltage at Forward Current 10A and 25 $^{\circ}\!$	Vf	1.0	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Maximum DC Reverse Current Ta =25℃	lr	10	
at rated DC blocking voltage Ta =125℃		100	μΑ
Typical thermal resistance junction to case	Rth(jc)	4.5	°C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

Note:

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

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#### **RATINGS AND CHARACTERISTIC CURVES FERP20D**



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