## FERP15K

# Ultra fast Plastic Power Rectifiers

VOLTAGE: 800V CURRENT: 15.0A



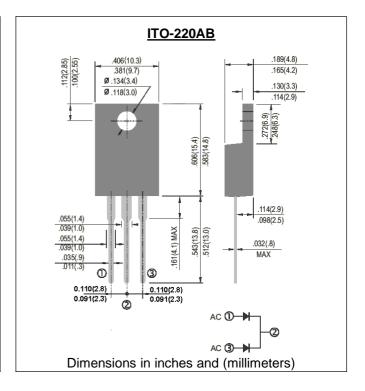
### **FEATURE**

- 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



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

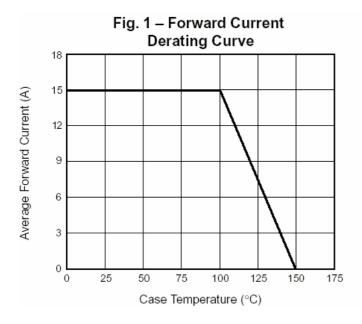
	SYMBOL	FERP15K	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	15.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	120	А
Maximum Forward Voltage at Forward Current 7.5A and 25°C	Vf	2.2	V
Maximum Reverse Recovery Time (Note 1)	Trr	70	nS
Typical thermal resistance junction to case	Rth(jc)	5.0	℃/W
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 100.0	μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

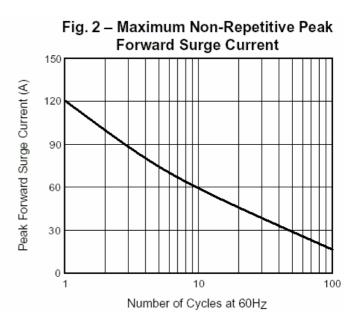
Note:

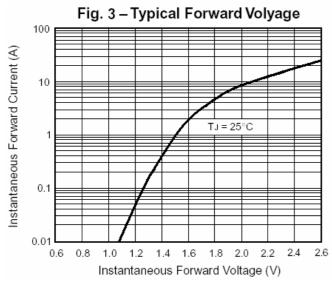
Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

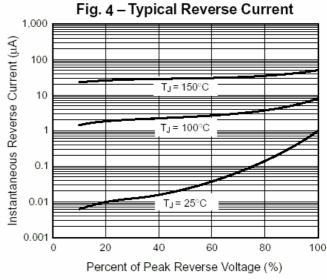
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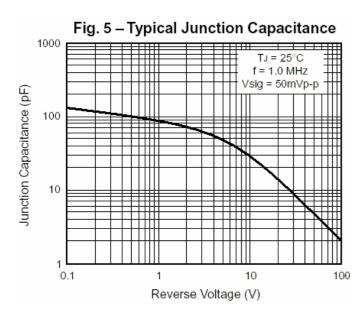
#### **RATINGS AND CHARACTERISTIC CURVES FERP15K**











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