FERP20J

Ultra fast Plastic Rectifiers

VOLTAGE: 600V 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

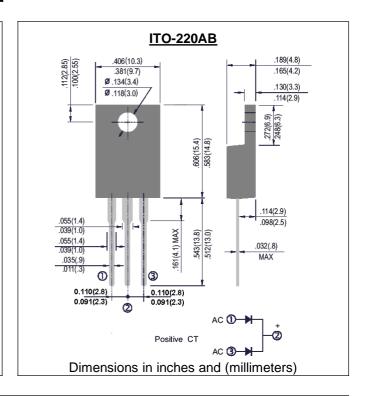
Case: JEDEC ITO-220AB molded plastic body over

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)

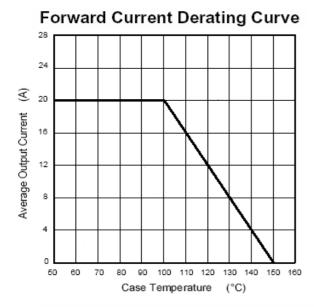
	SYMBOL	FERP20J	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	20.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125	Α
Maximum Forward Voltage at Forward Current at 10A	Vf	1.5	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical thermal resistance junction to case	Rth(jc)	3.0	€\M
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 125^{\circ}C$	lr	10 100	μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

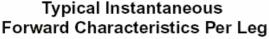
Note:

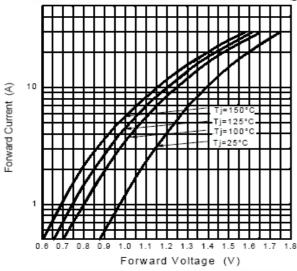
Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

Rev.A1 www.gulfsemi.com

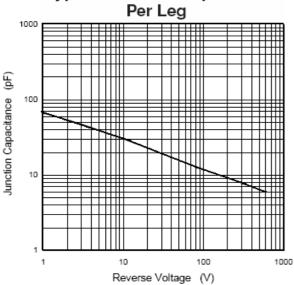
RATINGS AND CHARACTERISTIC CURVES FERP20D



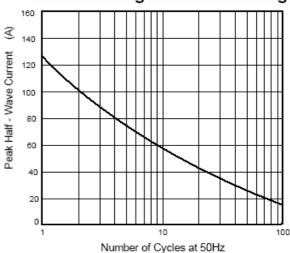




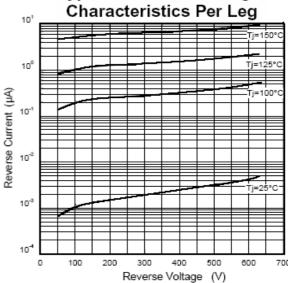
Typical Junction Capacitance



Maximum Non-Repetitive Peak Forward Surge Current Per Leg



Typical Reverse Leakage



Rev.A1 www.gulfsemi.com