FERA16J

Ultra fast Plastic Power Rectifiers

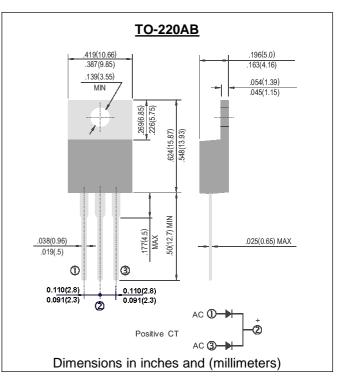
VOLTAGE: 600V

CURRENT:16.0A



- 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 TO-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	FERA16J	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	lf(av)	16.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	125	A
Maximum Forward Voltage at Forward Current 8A and 25°C	Vf	1.5	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical thermal resistance junction to case	R θ Jc	5.0	C/W
Maximum DC Reverse Current Ta = 25° C	Ir	10	μΑ
at rated DC blocking voltage Ta = $125^{\circ}C$	"	100	μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

Note:

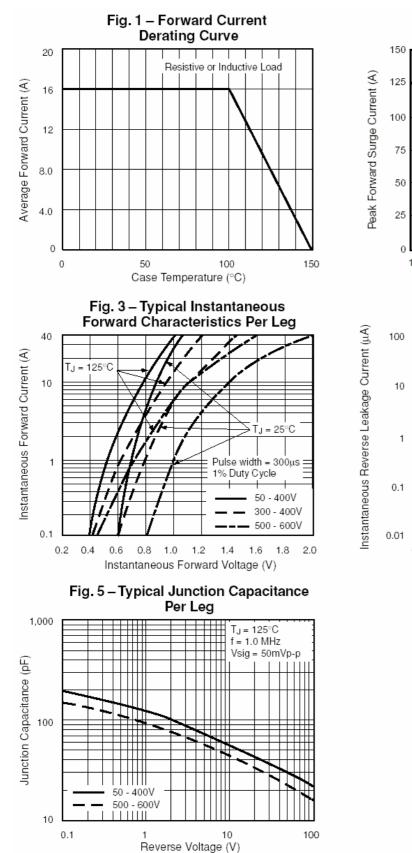
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

Rev.A1

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RATINGS AND CHARACTERISTIC CURVES



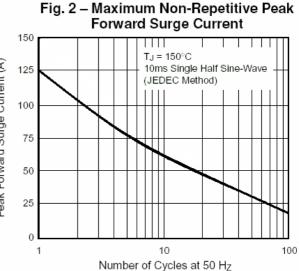


Fig. 4 – Typical Reverse Characteristics Per Leg

