FMG-06J

Ultra fast Plastic Power Rectifiers

VOLTAGE: 600V

CURRENT: 6.0A

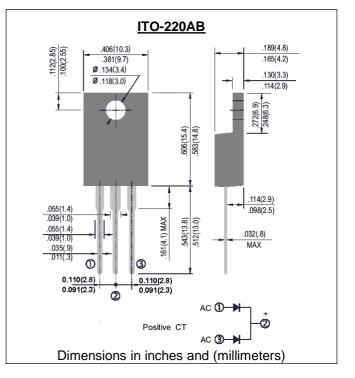


FEATURE

- 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 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

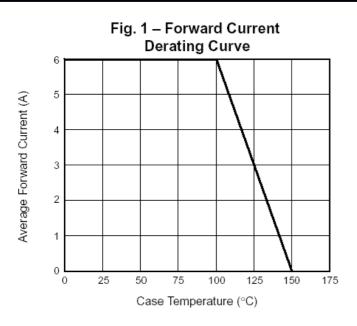
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

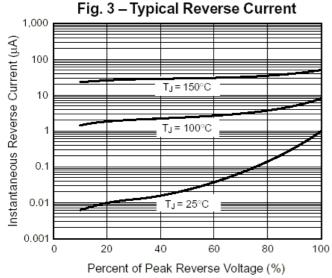
	SYMBOL	FMG-06J	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	6.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	90	A
Maximum Forward Voltage at Forward Current 3A and 25°C	Vf	2.2	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	Rth(jc)	5.0	C/W
Maximum DC Reverse Current Ta = 25° C at rated DC blocking voltage Ta = 125° C	lr	10 100	μΑ μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	O°

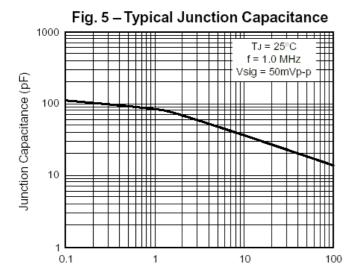
Note:

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

RATINGS AND CHARACTERISTIC CURVES FMG-06J







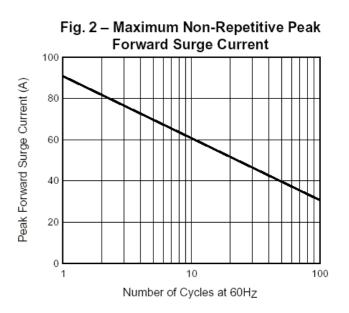


Fig. 4 – Typical Forward Volyage

