



SEMICONDUCTOR

DATA SHEET

FG1001~FG1007

**FAST RECOVERY
GLASS PASSIVATED RECTIFIER
VOLTAGE RANGE 50 to 1000 Volts CURRENT 10.0 Amperes**



FEATURES

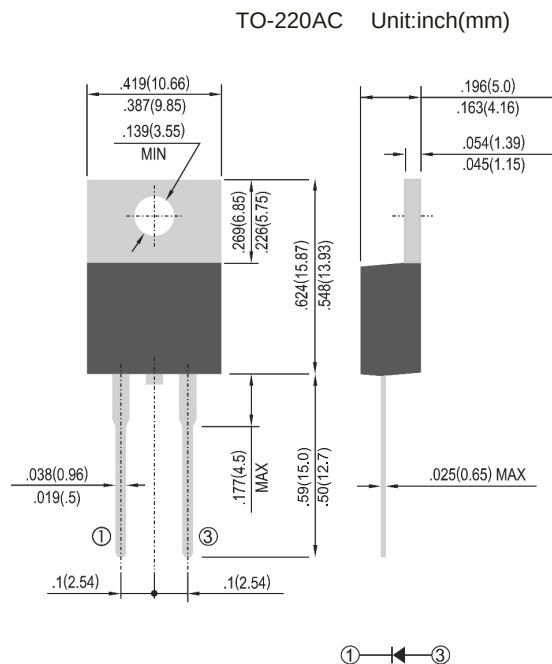
- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability
- High temperature soldering : 260 °C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request.

MECHANICAL DATA

- Case: TO-220AC molded plastic
- Epoxy : Device has UL flammability classification 94 V-0
- Lead: MIL-STD-202E method 208 C guaranteed
- Mounting position: Any
- Weight: 2.24 grams
- Polarity: As marking

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FG1001	FG1002	FG1003	FG1004	FG1005	FG1006	FG1007	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TC = 75°C	IO	10.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150							Amps
Typical Thermal Resistance (Note 3)	RθJC	3							°C / W
Typical Junction Capacitance (Note 2)	CJ	50							pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FG1001	FG1002	FG1003	FG1004	FG1005	FG1006	FG1007	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC	VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	IR	10							uAmps
Maximum Full Load Reverse Current Average, Full Cycle at TC = 100°C		150							uAmps
Maximum Reverse Recovery Time (Note 1)	trr	150				250	500		nSec

NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts
3. Thermal Resistance Junction to Case.
4. Suffix "R" for Reverse Polarity.

RATING AND CHARACTERISTIC CURVES

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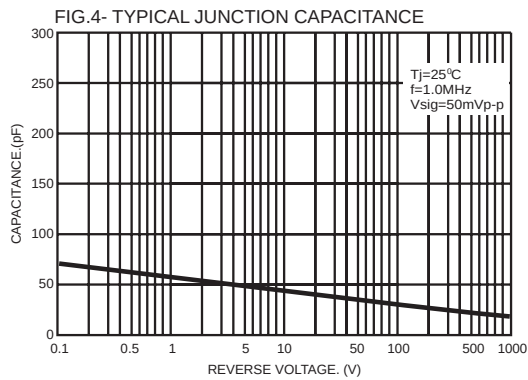
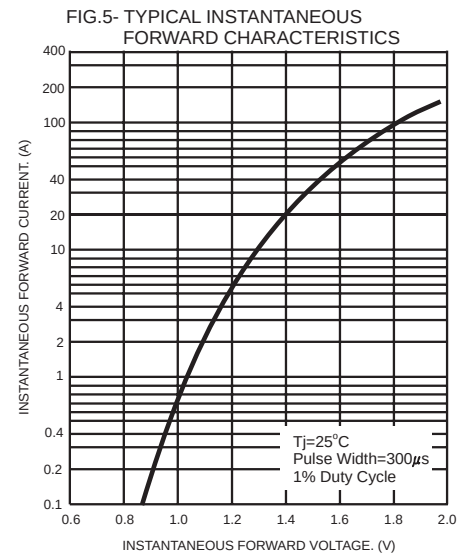
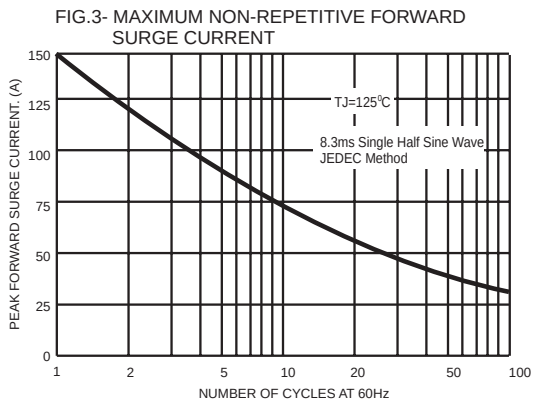
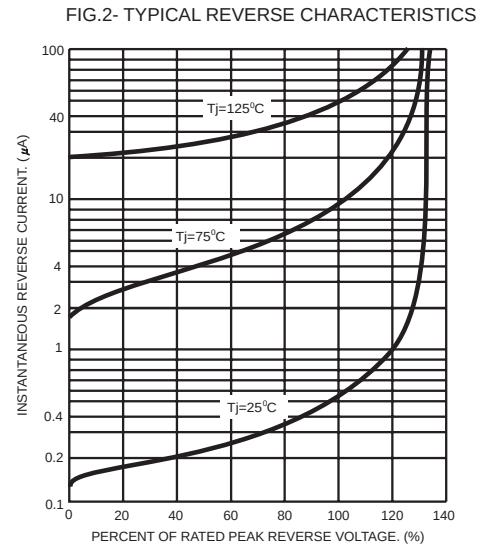
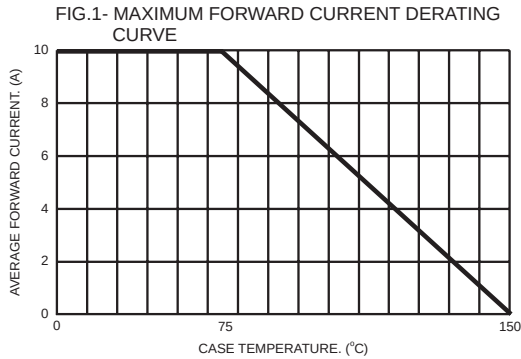
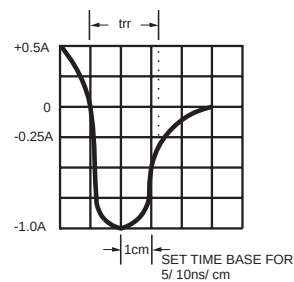
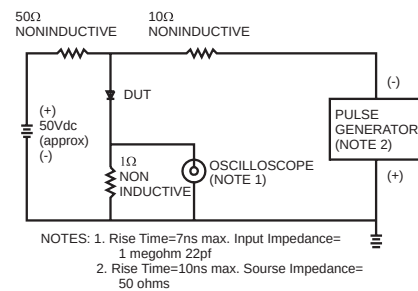


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





TO/ITO220 包装规范

Packing 包装	Dimension 尺寸	Qty 数量	Picture 图示
Bag/Tube 袋/管装	527mm*33mm*7mm	50 PCS	
Inner box 内盒	555mm*140mm*55mm	2000 PCS	 标签贴盒盖正面中心处
Carton 外箱	575mm*285mm *155mm	8000 PCS	 外箱两侧贴标签位置