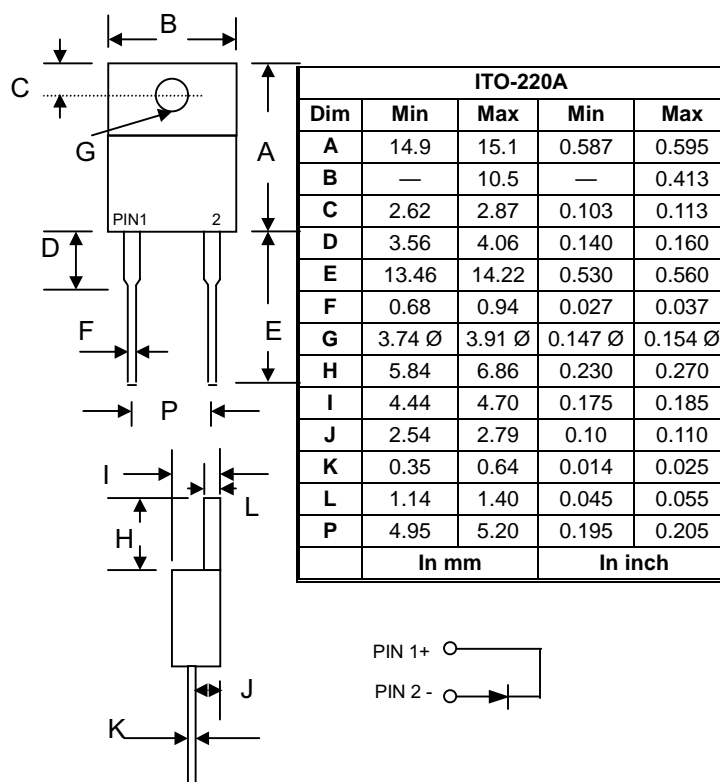


**Features**

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- Green Products in Compliance with the RoHS Directive

**Mechanical Data**

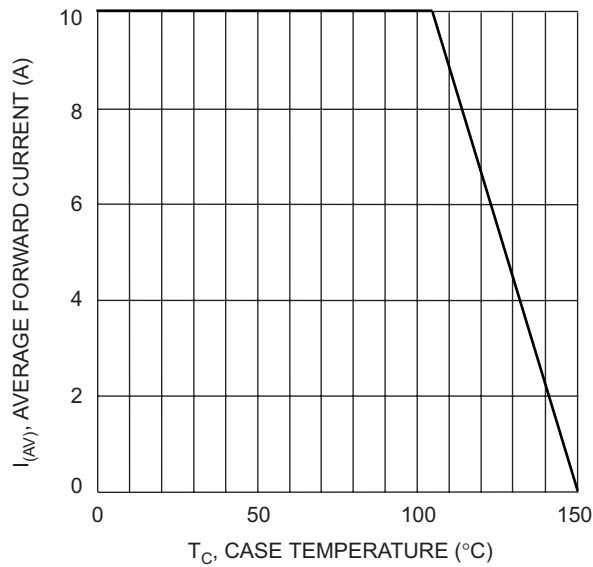
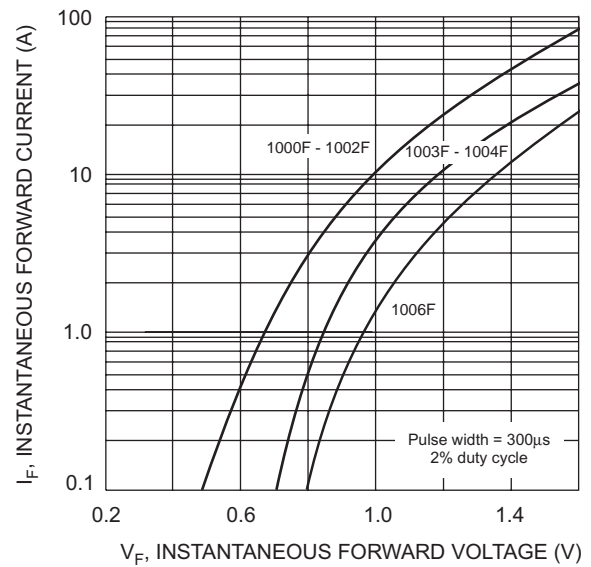
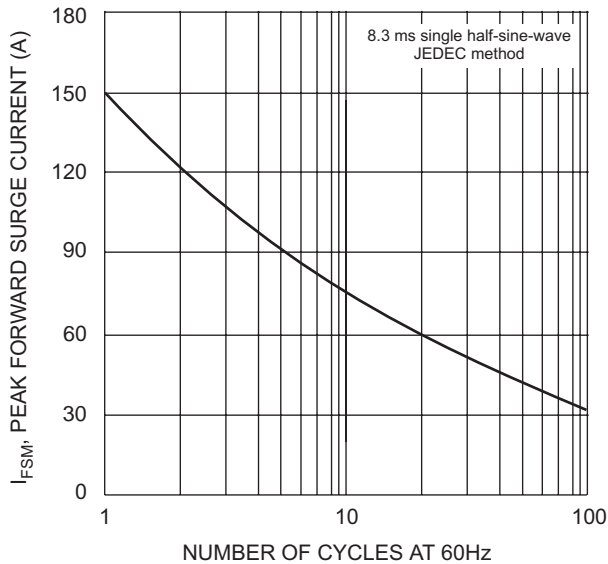
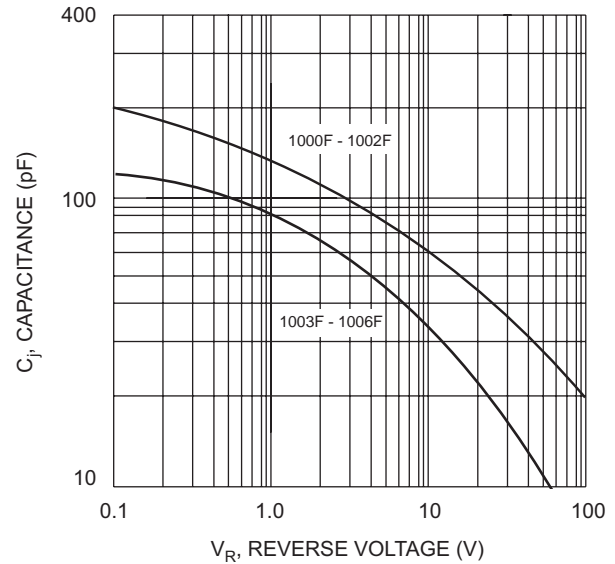
- Case: ITO-220A Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Marking: Type Number


**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified**

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	ER 1000F-G	ER 1001F-G	ER 1001AF-G	ER 1002F-G	ER 1003F-G	ER 1004F-G	ER 1006F-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	150	200	300	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	105	140	210	280	420	V
Average Rectified Output Current      @T <sub>C</sub> = 105°C	I <sub>O</sub>	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150							A
Forward Voltage                                      @I <sub>F</sub> = 10A	V <sub>FM</sub>	0.95				1.3		1.7	V
Peak Reverse Current                                      @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage                                      @T <sub>A</sub> = 100°C	I <sub>RM</sub>	10 500							µA
Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35				50			nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	70				50			pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150							°C

Note: 1. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A.  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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**Fig. 1 Forward Current Derating Curve**

**Fig. 2 Typical Forward Characteristics**

**Fig. 3 Max Non-Repetitive Surge Current**

**Fig. 4 Typical Junction Capacitance**

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