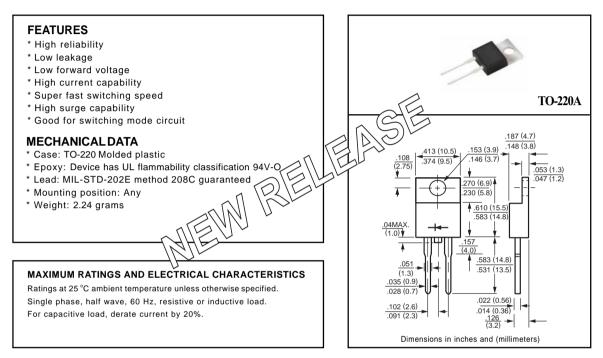


## **GLASS PASSIVATED SUPER FAST RECTIFIER**

VOLTAGE RANGE 50 to 200 Volts CURRENT 8.0 Amperes



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

RATINGS	SYMBOL	USF81	USF82	USF83	USF84	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	Volts
Maximum RMS Volts	Vrms	35	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	Volts
Maximum Average Forward Current at Tc = 100°C	lo	8.0				
Peak Forward Surge Current IFM (surge):8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150				
Typical Junction Capacitance (Note 2)	CJ	45				
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150				

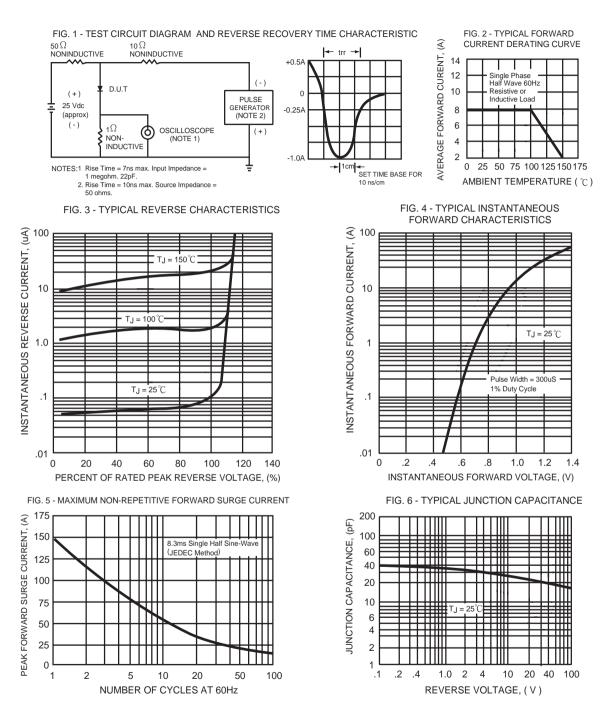
#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	USF81	USF82	USF83	USF84	UNITS
Maximum Forward Voltage at 8.0A DC		VF	0.95				
Maximum DC Reverse Current	@TA = 25°C	IR 10					uAmps
at Rated DC Blocking Voltage	@TA =100°C		500				
Maximum Reverse Recovery Time (Note 1)		trr	20			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.

### RATING AND CHARACTERISTIC CURVES (USF81 THRU USF84)



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