

# GLASS PASSIVATED SUPER FAST RECTIFIER

VOLTAGE RANGE 50 to 400 Volts CURRENT 2.0 Amperes

## FEATURES

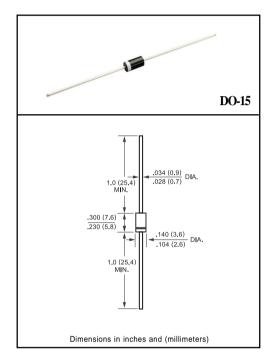
- \* High reliability
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* Super fast switching speed
- \* High surge capability
- \* Good for switching mode circuit

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.38 gram

### 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	SF21	SF22	SF23	SF24	SF25	SF26	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	Volts
Maximum RMS Volts	Vrms	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Current TA = 55°C	lo	2.0						Amps
Peak Forward Surge Current IFM (surge):8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	75						Amps
Typical Junction Capacitance (Note 2)	CJ	30 20				20	pF	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150						٥C

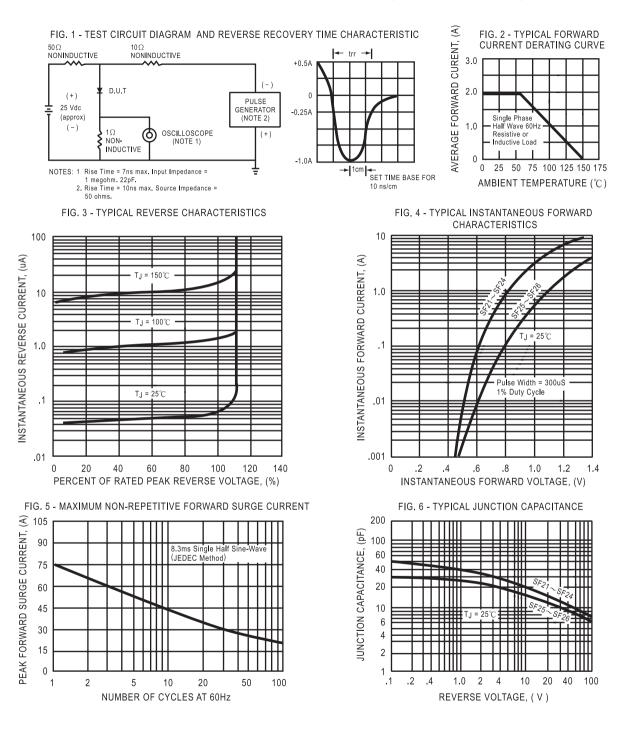
#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SF21	SF22	SF23	SF24	SF25	SF26	UNITS
Maximum Forward Voltage at 2.0A DC		VF	0.95 1.25					25	Volts
Maximum DC Reverse Current	$@TA = 25^{\circ}C$	l R	5.0						– uAmps
at Rated DC Blocking Voltage	@Ta =150°C		50						
Maximum Reverse Recovery Time (Note 1)		trr	35						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 (SF21 THRU SF26)



RECTRON