

USF21 THRU USF24

GLASS PASSIVATED SUPER FAST RECTIFIER

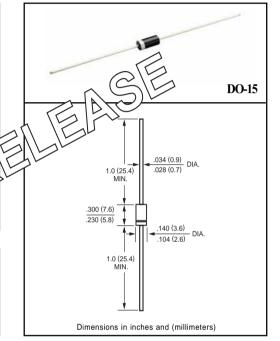
VOLTAGE RANGE 50 to 200 Volts CURRENT 2.0 Amperes

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: Device has UL flammability classification 94V-O
- * 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)

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RATINGS	SYMBOL	SF21	SF22	SF23	SF24	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 TA = 55°C	lo	2.0				
Peak Forward Surge Current IFM (surge):8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	75				
Typical Junction Capacitance (Note 2)	Cı	15				
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150				

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

CHARACTERISTICS		SYMBOL	SF21	SF22	SF23	SF24	UNITS
Maximum Forward Voltage at 2.0A DC		VF	0.90				Volts
Maximum DC Reverse Current	@TA = 25°C	lR .	10				uAmps
at Rated DC Blocking Voltage	@Ta =100°C	l ik	350				
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 (USF21 THRU USF24)

