

F21 THRU F27

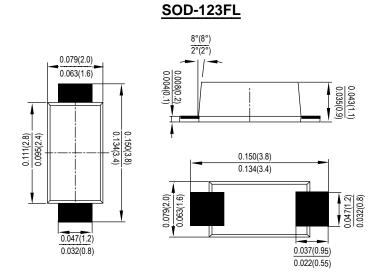
SINGLE PHASE 2.0AMP SURFACE MOUNT FAST RECOVERY RECTIFIER

Features

- · Glass passivated die construction
- Ideal for surface mouted applications
- Low reverse leakage
- · Metallurgically bonded construction
- High temperature soldering guaranteed: 260 ℃ /10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	F21	F22	F23	F24	F25	F26	F27	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current @TL =90 °C	İ F(AV)	2.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	10.375							A ² s
Forward Voltage per element @IF=2.0A	VFM	1.25							V
Peak Reverse Current @TA =25℃ At Rated DC Blocking Voltage @TA =125℃	lr	5.0 100							uA
Maximum reverse recovery time (NOTE 1)	trr	150 250 500				500	ns		
Typical junction capacitance (NOTE 2)	Сл	15							pF
Operating and Storage Temperature Range	Т _Ј ,Тѕтс	-55to+150							$^{\circ}$

Note: 1. Measured with IF=0.5A, IR=1A, Irr=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

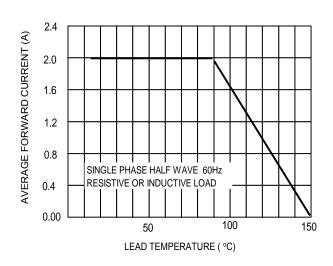


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS 10

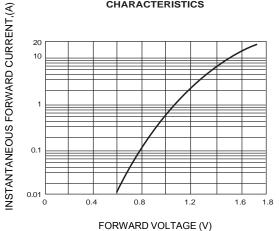
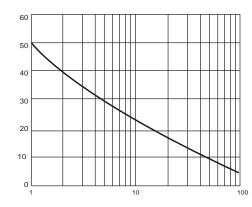


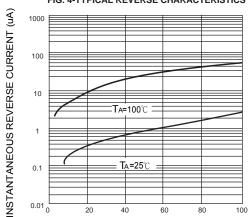
FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



PEAK FORWARD SURGE CURRENT (A)

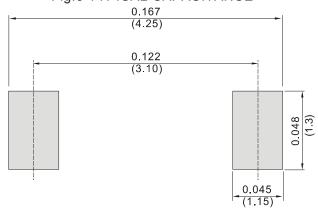
NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLYAGE(%)







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