

## DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

UF1AFL THRU UF1MFL

# TECHNICAL SPECIFICATIONS OF ULTRA FAST SURFACE MOUNT GLASS PASSIVATED RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

#### **FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Low profile space
- \* Low forward voltage drop
- \* High forward surge capability
- \* Glass passivated junction

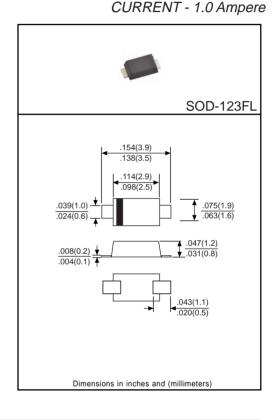
#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant \*Terminals: Solder plated, solderable per
  - MIL-STD-750, Method 2026
- \* Polarity: As marked \* Mounting position: Any
- \* Weight: 0.017 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%.

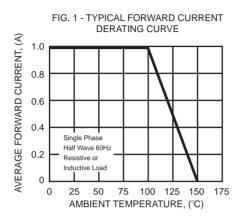


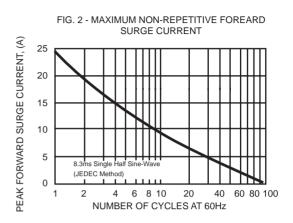
		SYMBOL	UF1AFL	UF1BFL	UF1DFL	UF1GFL	UF1JFL	UF1KFL	UF1MFL	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		lo	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	25						Amps	
Maximum Forward Voltage at 1.0A DC		VF	1.0 1.3 1.7					Volts		
Maximum DC Reverse Current at	@TA = 25°C	lr	5.0							uAmps
Rated DC Blocking Voltage	@T <sub>A</sub> = 125°C	IK.	100							
Maximum reverse recovery time at I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Irr = 0.25A		trr	50				75			nS
Operating and Storage Temperature Range		TJ, TSTG	-55 to + 150							٥C

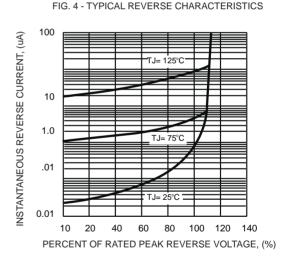
NOTES: 1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

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### RATING AND CHARACTERISTIC CURVES (UF1AFL THRU UF1MFL)







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