



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

UF2AFL
THRU
UF2MFL

TECHNICAL SPECIFICATIONS OF ULTRA FAST SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 2.0 Amperes

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

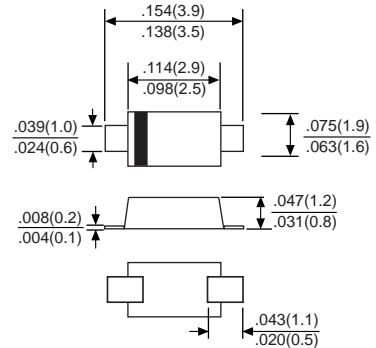
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.017 gram

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%.



SOD-123FL



Dimensions in inches and (millimeters)

	SYMBOL	UF2AFL	UF2BFL	UF2DFL	UF2GFL	UF2JFL	UF2KFL	UF2MFL	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current	I _O	2.0							Amps	
Peak Forward Surge Current I _{FM} (surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps	
Maximum Forward Voltage at 2.0A DC	V _F	1.0			1.3	1.7			Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C	5.0							uAmps	
	@ T _A = 125°C	100								
Maximum reverse recovery time at I _F = 0.5A , I _R = 1.0A , I _{rr} = 0.25A	t _r	50				75				nS
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C	

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

RATING AND CHARACTERISTIC CURVES (UF2AFL THRU UF2MFL)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

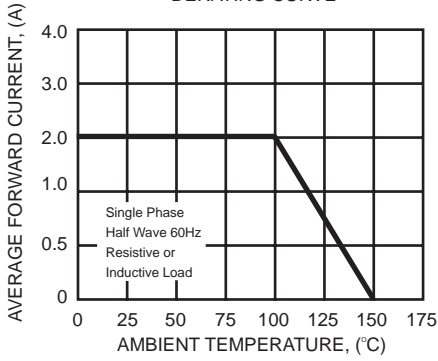


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

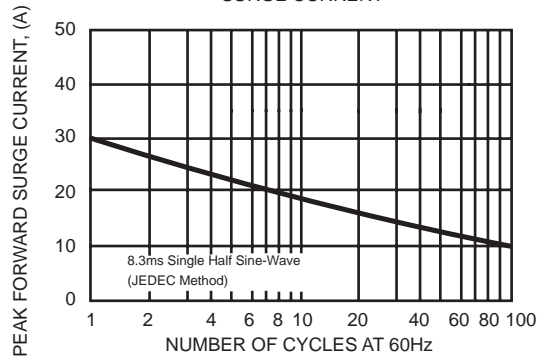


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

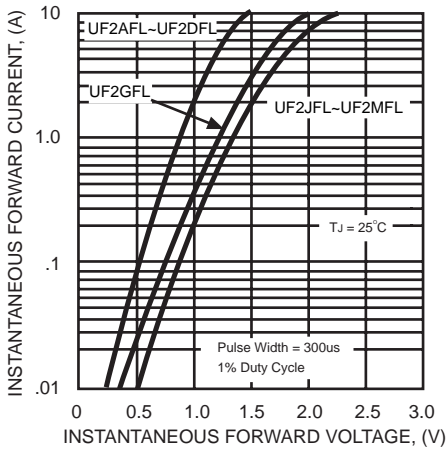
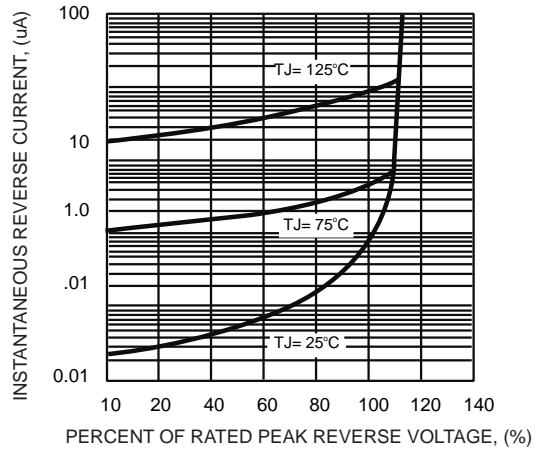


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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