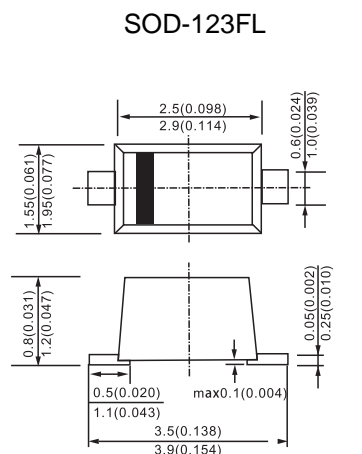


**FEATURES**

- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product : 99% Sn can meet RoHS environment substance directive request

**MECHANICAL DATA**

- Case: JEDEC SOD-123FL, Molded plastic over passivated junction.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes positive end (cathode)
- standard Packaging : 8mm tape (EIA-481)
- Approx. Weight: 0.0168 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%.

PARAMETER	Symbol	UF1001FL	UF1002FL	UF1004FL	UF1006FL	UF1008FL	Units	
Maximum repetitive peak reverse voltage	$V_{RRM}$	100	200	400	600	800	V	
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	V	
Maximum DC blocking voltage	$V_{DC}$	100	200	400	600	800	V	
Maximum average forward rectified current	$I_{F(AV)}$	$T_{JP}=65^{\circ}C$ $T_A=45^{\circ}C$					1.4	A
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_A=25^{\circ}C$ $T_A=125^{\circ}C$					10 50	$\mu A$
Operating junction and storage temperature range	$T_J, T_{STG}$	-50 TO + 150						$^{\circ}C$

**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%.

PARAMETER	Symbol	UF1001FL	UF1002FL	UF1004FL	UF1006FL	UF1008FL	Units	
Maximum instantaneous forward voltage	$V_F$	1		1.4		1.7	V	
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_A=25^{\circ}C$ $T_A=125^{\circ}C$					10 50	$\mu A$
Reverse recovery time at $I_F=0.5A, I_R=1A, I_{tr}=0.25A$	$t_{rr}$	50			100		ns	
Typical capacitance	$C_J$	9					pF	



**TAYCHIPST**

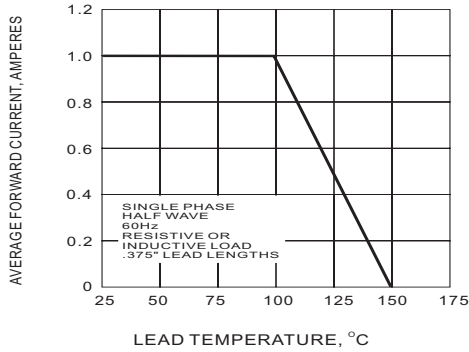
SMALL SURFACE MOUNT SUPER FAST DIODES

**UF1001FL THRU UF1008FL**

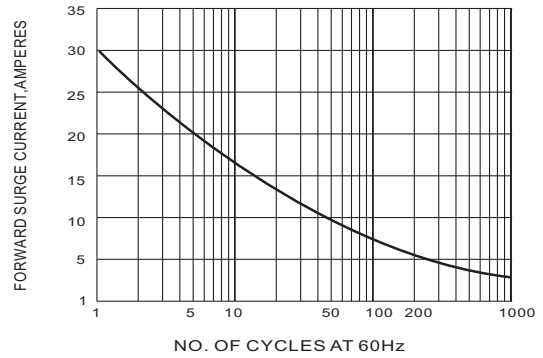
**100V-800V 1.0A**

**RATINGS AND CHARACTERISTIC CURVES**

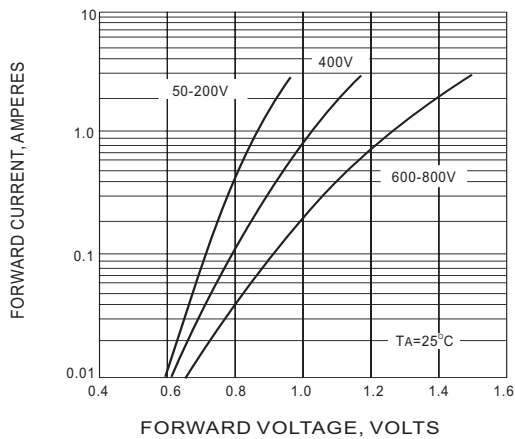
**UF1001FL THRU UF1008FL**



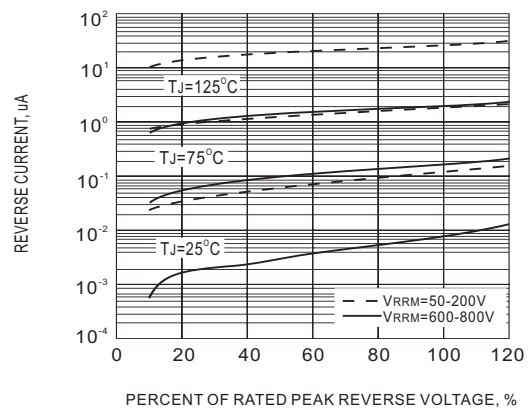
**Fig.1 FORWARD CURRENT DERATING CURVE**



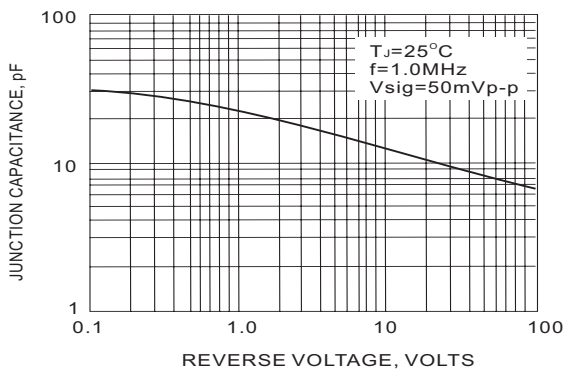
**Fig.2 PEAK FORWARD SURGE CURRENT**



**Fig.3 FORWARD CHARACTERISTICS**



**Fig.4 TYPICAL REVERSE CHARACTERISTICS**



**Fig.5 TYPICAL JUNCTION CAPACITANCE**