

# RGL1MW

## SURFACE MOUNT FAST RECOVERY RECTIFIERS

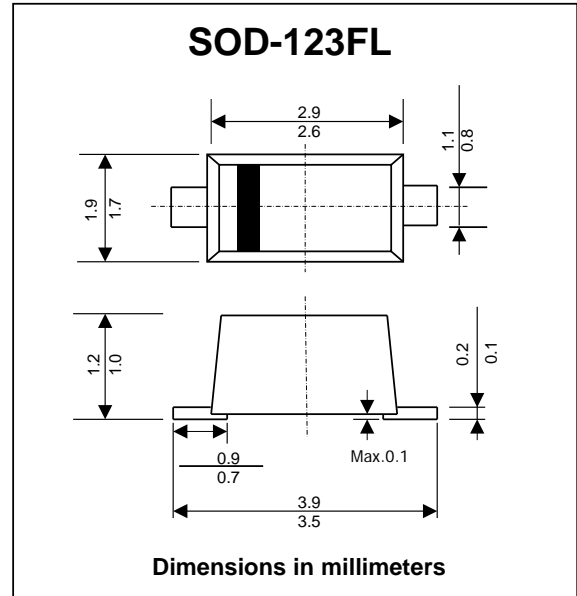
**PRV : 1000 Volts**  
**Io : 1 Ampere**

**FEATURES :**

- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* Pb / RoHS Free

**MECHANICAL DATA :**

- \* Case: JEDEC SOD-123FL, molded plastic over passivated chip
- \* Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- \* Polarity: Color band denotes cathode end
- \* Mounting position : Any
- \* Weight: 0.006 ounces, 0.02 gram



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temperature unless otherwise specified.

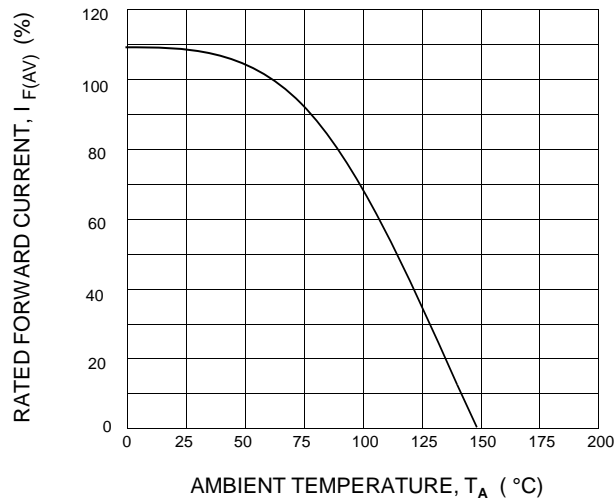
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Current $T_A = 25\text{ °C}$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load	$I_{FSM}$	30	A
Maximum Forward Voltage at $I_F = 1\text{ A}$ $T_A = 25\text{ °C}$	$V_F$	1.3	V
Maximum DC Reverse Current $T_J = 25\text{ °C}$ at rated DC Blocking Voltage $T_J = 125\text{ °C}$	$I_R$	5.0	$\mu\text{A}$
	$I_{R(H)}$	100	$\mu\text{A}$
Typical Revers Recovery Time (Note 1)	$T_{rr}$	500	ns
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	- 55 to + 150	$^{\circ}\text{C}$

**Notes :**

(1) Reverse Recovery Test Conditions :  $I_F = 0.5\text{ A}$ ,  $I_R = 1.0\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$ .

**RATING AND CHARACTERISTIC CURVES ( RGL1MW )**

**FIG.1 - RATED FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**FIG.2 - TYPICAL FORWARD CHARACTERISTICS**

