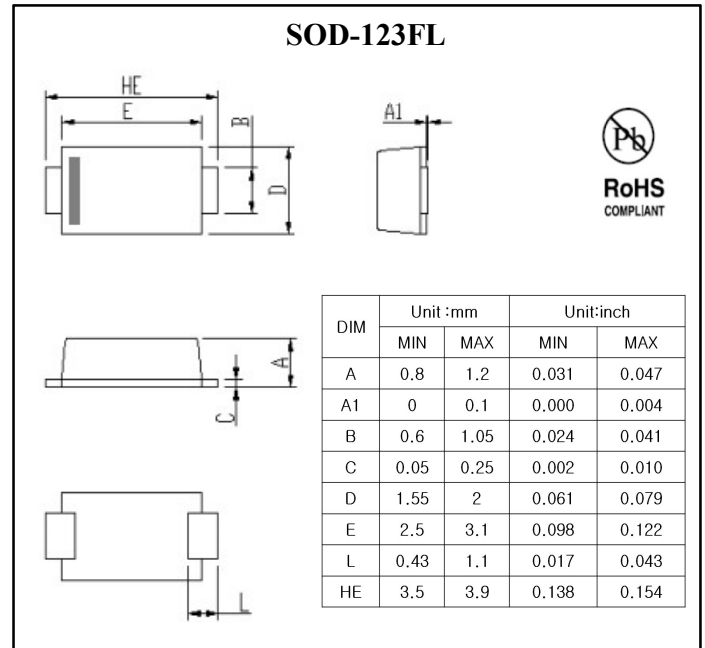
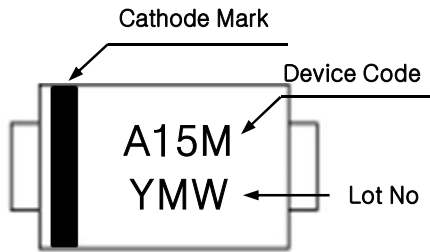


**Surface Mount Glass Passivated Rectifier**  
**Reverse Voltage 1000 Volts Forward Current 1.5 Amperes**
**Features**

- Glass passivated chip junction
- For surface mounted application
- Low forward voltage drop
- Low profile package
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed  
: 260°C/10 seconds

**Mechanical Data**

- Case : JEDEC SOD-123FL molded plastic over glass passivated chip
- Terminals : Solder plated, Solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.015gram

**Marking**

**Maximum Ratings & 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%

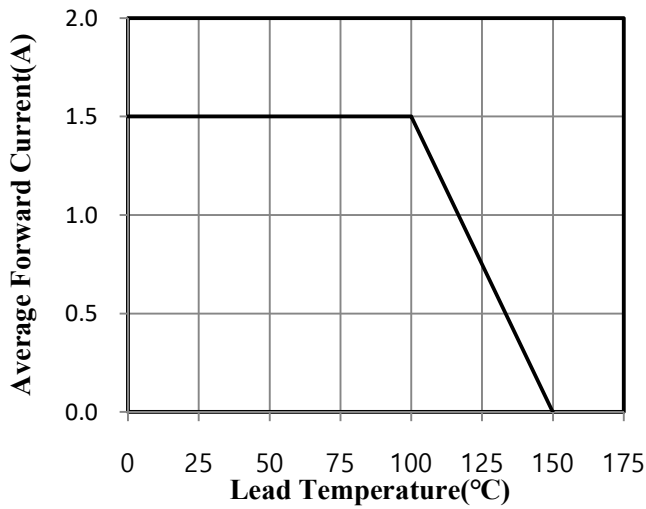
Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V	
Maximum RMS Voltage	$V_{RMS}$	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	1000	V	
Maximum Average Forward Rectified Current at TL (See Fig. 1)	$I_F(AV)$	1.5	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	50	A	
Maximum instantaneous forward voltage at 1.5A	$V_F$	1.1	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0	uA	Ta=25°C
		125	uA	Ta=125°C
Typical Thermal Resistance	Rth(j-a)	53	°C/W	Note 1
	Rth(j-l)	16		
Typical Junction Capacitance	$C_J$	30	pF	Note 2
Operation Junction Temperature Range	$T_J$	-55 to +150	°C	
Storage Temperature Range	$T_{STG}$	-55 to +150	°C	

Note 1. Thermal resistance from junction to ambient and from junction to lead mounted on

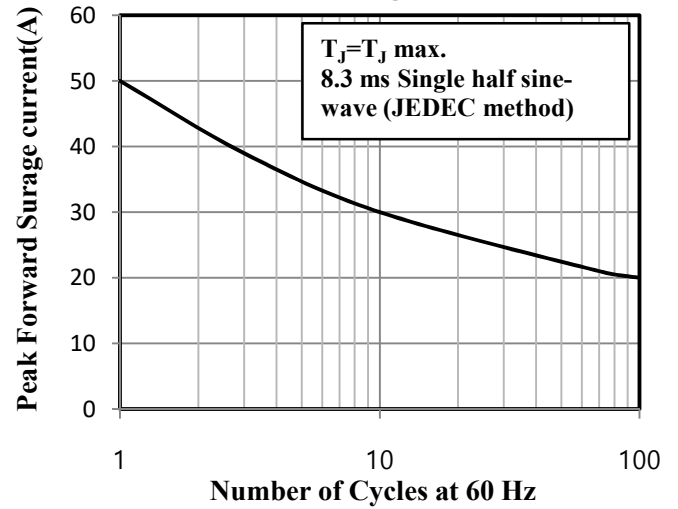
Note 2. Measured at 1.0MHz and applied reverse voltage of 4.0 volts

**Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)**

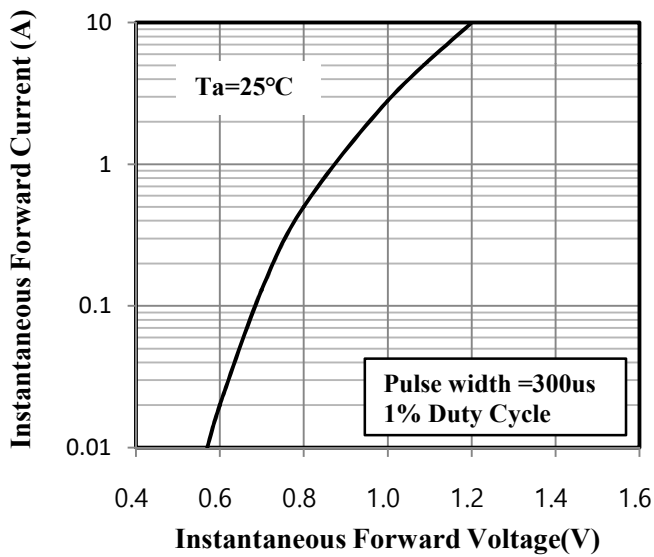
**Fig.1 Forward Current Derating Curve**



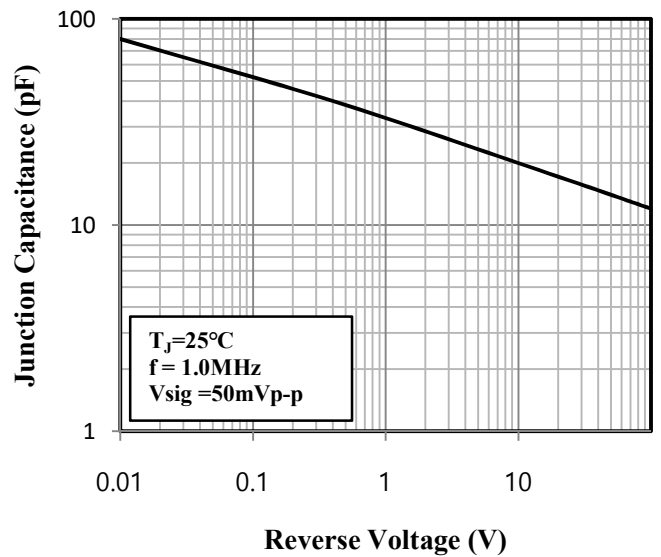
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**

