



# SS1020FL~SS10100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 100 Volts **CURRENT** 1.0 Amperes

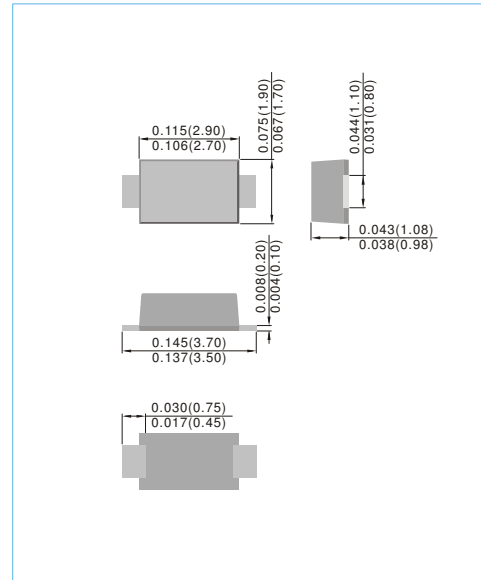
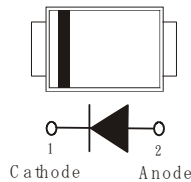
**SOD-123FL** Unit : inch(mm)

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0006 ounces, 0.0173 grams
- Polarity : Color band denotes cathode end



### ABSOLUTE RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Marking Code	-	G2	G3	G4	G6	G10	-
Reverse Voltage	V <sub>R</sub>	20	30	40	60	100	V
Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	60	100	V
Average Rectified Current at T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	1.0					A
Non-repetitive Peak Forward Surge Current at t=8.3ms	I <sub>FSM</sub>	40					A

### ELECTRICAL AND THERMAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Minimum Reverse Breakdown Voltage at I <sub>R</sub> =500μA	V <sub>R</sub>	20	30	40	60	100	V
Maximum Forward Voltage at I <sub>F</sub> =1.0A	V <sub>F</sub>	0.55	0.55	0.55	0.70	0.85	V
Reverse Leakage Current at V <sub>RRM</sub>	I <sub>R</sub>	30					μA
Typical Thermal Resistance ,Junction to Ambient	R <sub>θJA</sub>	88					°C/W
Typical Junction Capacitance Rating at V <sub>R</sub> =0V	C <sub>J</sub>	60	60	60	50	40	pF
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +125					°C

Note.1 Mounted with minimum recommended pad size, PC Board FR4.  
2. T<sub>A</sub>=25°C unless otherwise specified.



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## Rating and Characteristic Curves

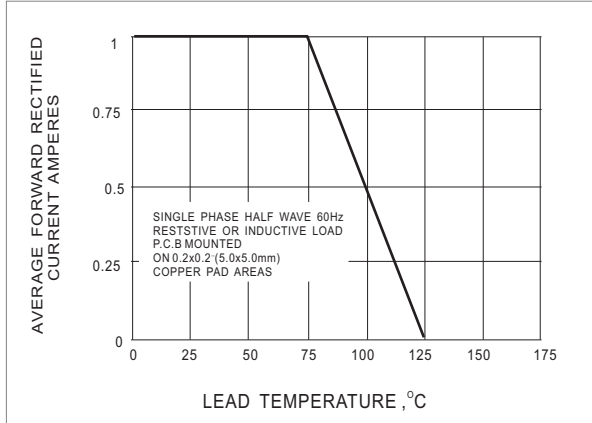


FIG. 1-FORWARD CURRENT DERATING CURVE

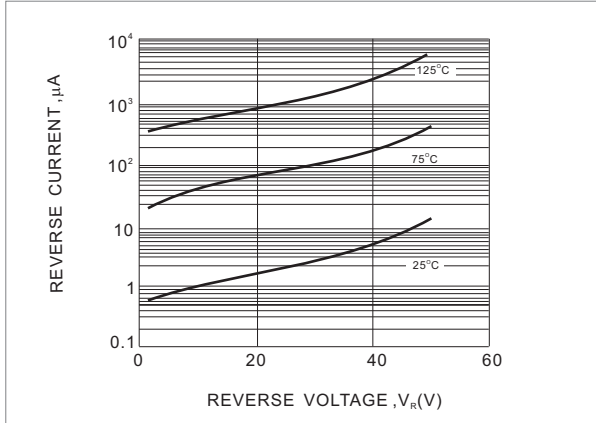


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

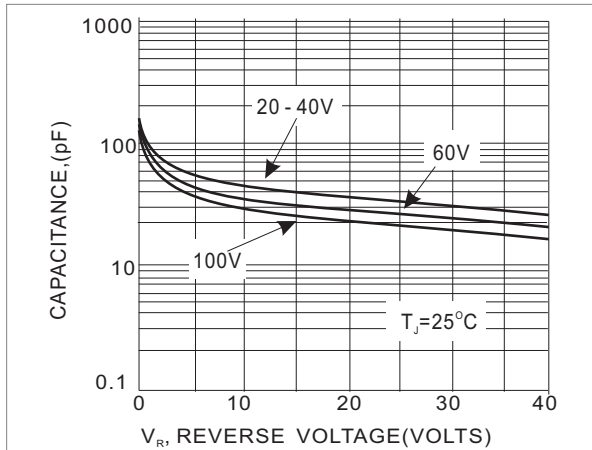


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

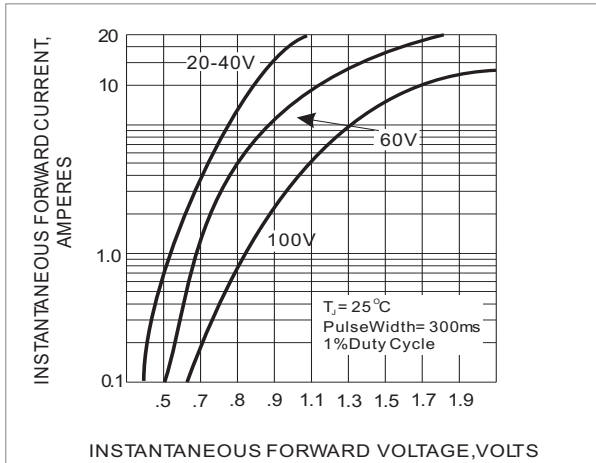


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS