



**TAYCHIPST**

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**SS1020FL THRU SS10100FL**

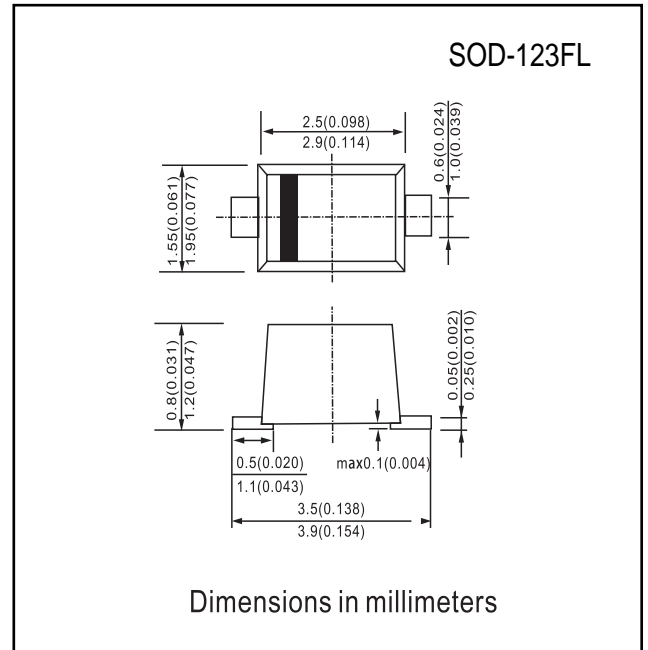
**20V -100V 1.0A**

**FEATURES**

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Classification 94V-O

**Mechanical Data**

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams (approx.)
- Marking: SS1020FL G2 SS1030FL G3  
SS1040FL G4 SS1060FL G6  
SS10100FL G10



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

**Maximum Ratings** @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	60	100	V
Working Peak Reverse Voltage	V <sub>RFM</sub>						
DC Blocking Voltage	V <sub>R</sub>						
Forward Continuous Current (Note 1)	I <sub>F</sub>	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	25					A
Power Dissipation (Note 1)	P <sub>d</sub>	450					mW
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +125					°C

**Electrical Characteristics** @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit
Forward Voltage Drop @I <sub>F</sub> = 1.0A	V <sub>FM</sub>	0.45	0.55	0.55	0.70	0.85	V
Peak Reverse Leakage Current @ V <sub>RRM</sub>	I <sub>RM</sub>	500					μA
Typical Junction Capacitance	C <sub>j</sub>	50					pF

Note: 1. Valid provided that terminals are kept at ambient temperature.



**RATINGS AND CHARACTERISTIC CURVES SS1020FL THRU SS10100FL**

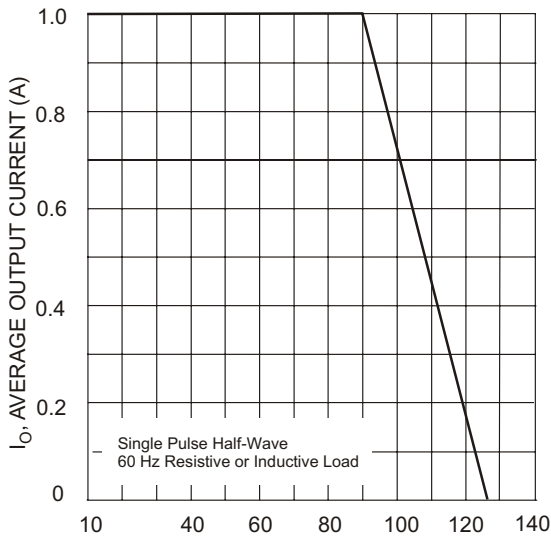


Fig. 1 Forward Current Derating Curve

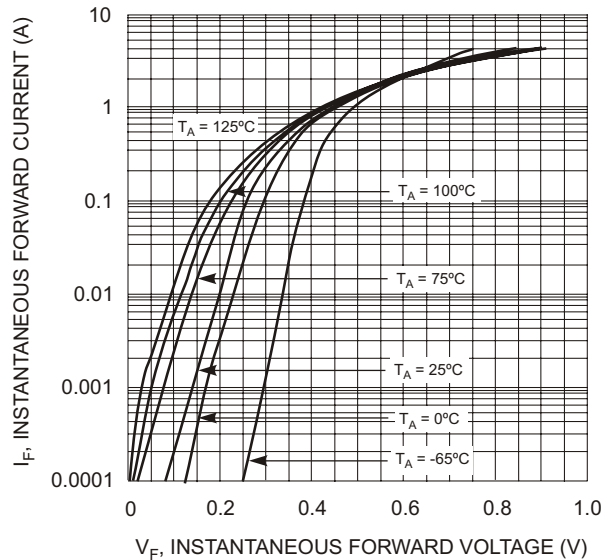


Fig. 2 Typical Forward Characteristics

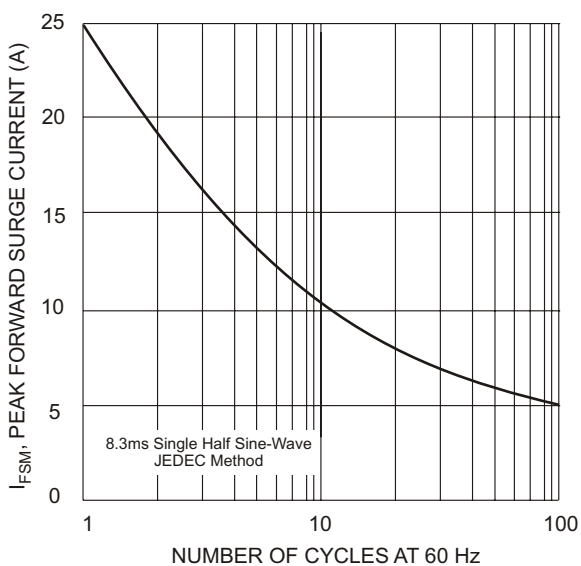


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

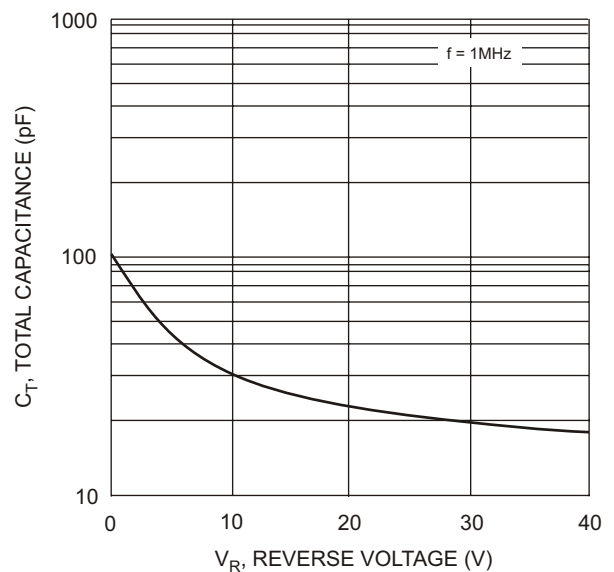


Fig. 4 Typical Total Capacitance