

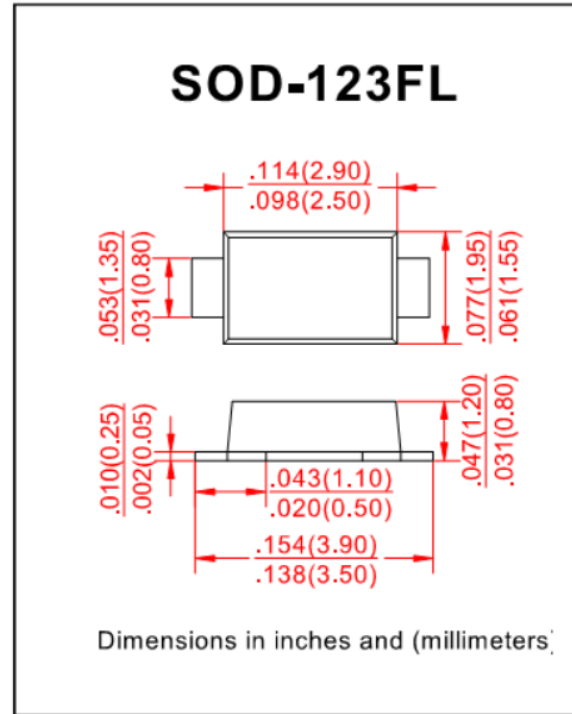
### SS1020FL THRU SS10100FL SERIES

#### FEATURES

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient ans
- ESD Protection
- Designed for Surface Mount Application
- Plastic Material-UL Recognition Flammability
- Classification 94V-O

#### MECHANICAL DATA

- Case:SOD-123FL, Molded Plastic
- Terminals:Pure tin Plated,Lead Solderable per MIL-STD-750, Method 2026
- Polarity:Cathode Band
- Weight:0.017 grams(approx)
- Marking: SS1020FL/G2/K12    SS1030FL/G3/K13  
SS1040FL/G4/K14    SS1060FL/G6/K16  
SS10100FL/G10/K110
- Lead Free: Lead and body according with ROHS standard



#### Maximum Ratings and Electrical Charateristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	SS 1020FL	SS 1030FL	SS 1040FL	SS 1060FL	SS 10100FL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	20	30	40	60	100	V
Forward Voltage Drop @I <sub>F</sub> =1.0A	$V_{FM}$	0.55			0.75	0.85	V
Forward Continuos Current (Note 1)	I <sub>F</sub>	1.0					A
Non-Repetitive Peak Forward Surge Current, 8.3 ms 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
Peak Reverse Leakage Current @V <sub>R</sub> =50/100 DC Blocking Voltage	I <sub>RM</sub>	500					μA
Typical Junction Capacitance(V <sub>R</sub> =0V DC f=1MHZ)	C <sub>j</sub>	50					pF
Operating and Storage Temperature Range	T <sub>j</sub> T <sub>STG</sub>	-65 to+ 125					°C

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

## RATING AND CHARACTERISTIC CUEVES

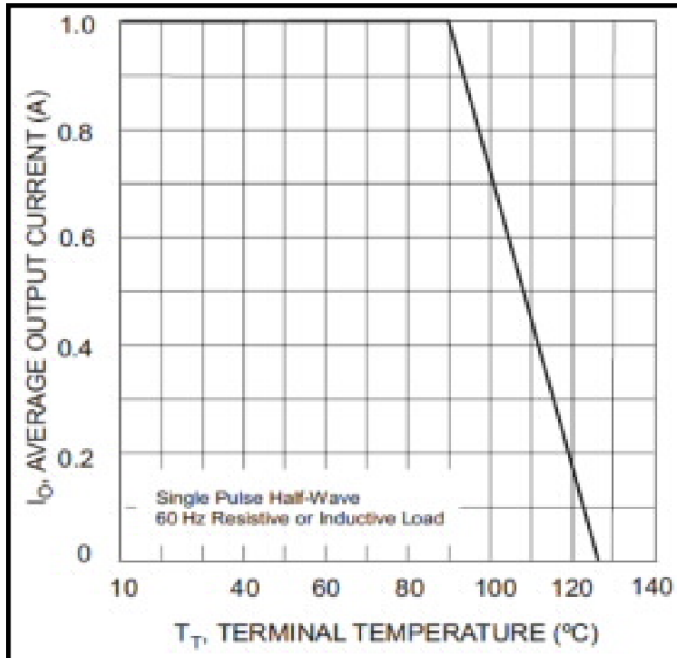


Fig.1 Forward Current Derating Curve

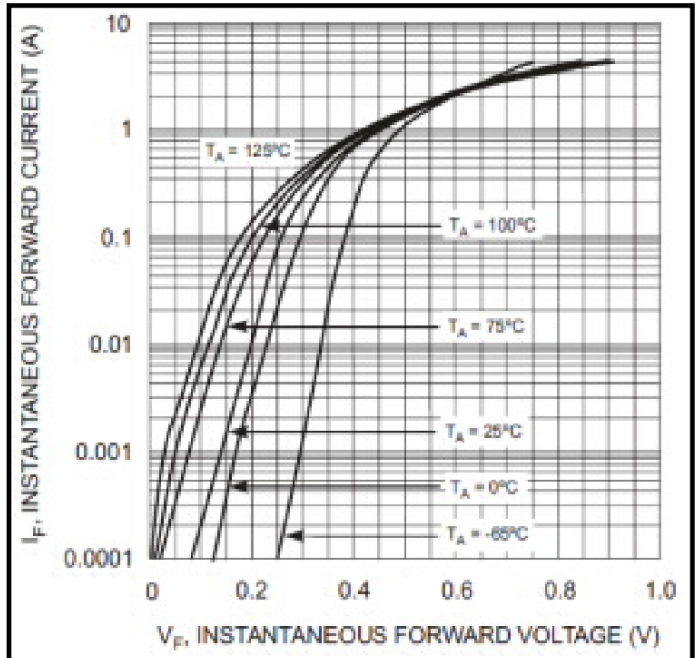


Fig.2 Typical Forward Characteristics

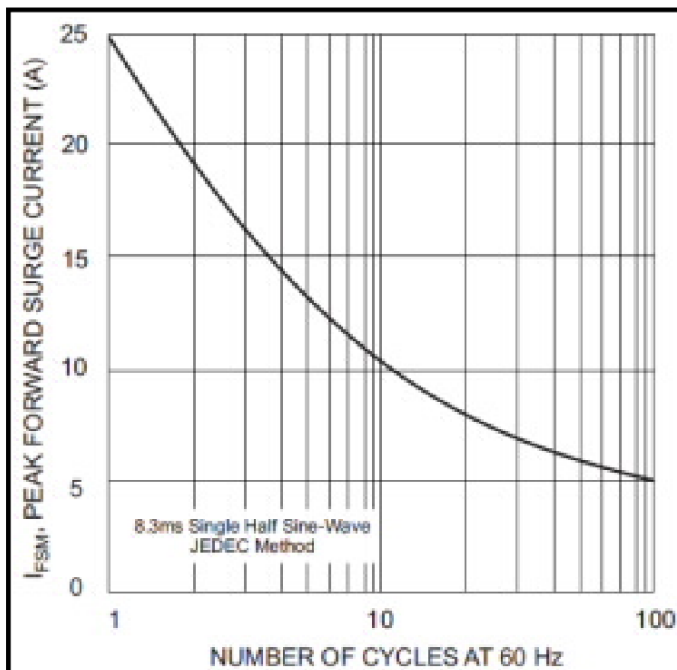


Fig.3 Maximum Non-Repetitive Peak Fwd Surge Current

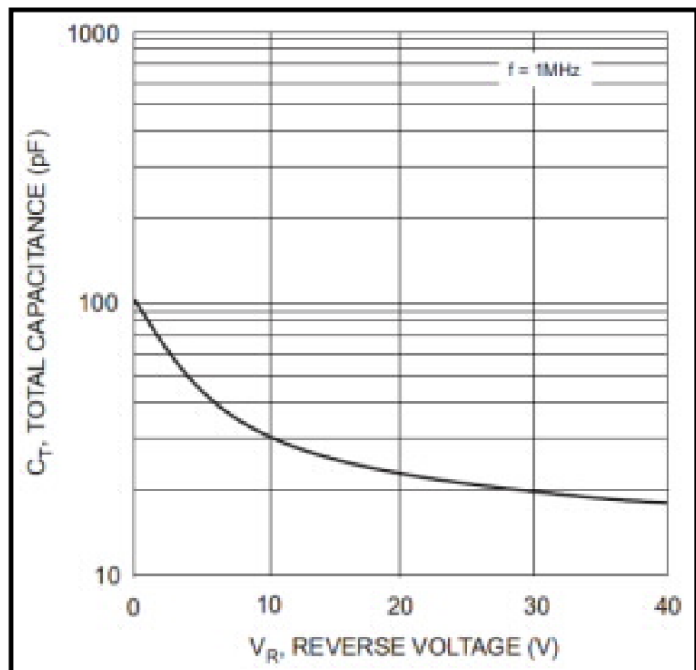


Fig.4 Typical Total Capacitance