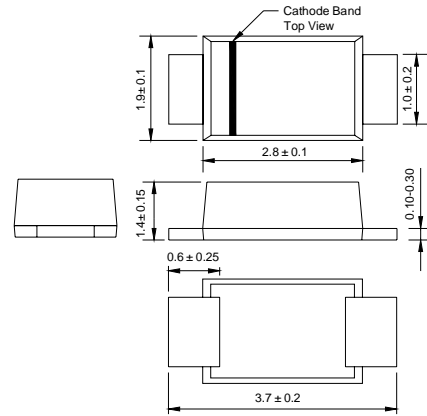




### SOD - 123FL



Dimensions in millimeters

## Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability 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 @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	60	100	V	
Working Peak Reverse Voltage	$V_{RWM}$							
DC Blocking Voltage	$V_R$							
Forward Continuous Current (Note 1)	$I_F$	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	25						A
Power Dissipation (Note 1)	$P_d$	450						mW
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +125						$^\circ\text{C}$

## Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	Unit	
Forward Voltage Drop @ $I_F = 1.0\text{A}$	$V_{FM}$	0.45	0.55	0.55	0.70	0.85	V	
Peak Reverse Leakage Current @ $V_{RRM}$	$I_{RM}$	500						$\mu\text{A}$
Typical Junction Capacitance	$C_j$	50						pF

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

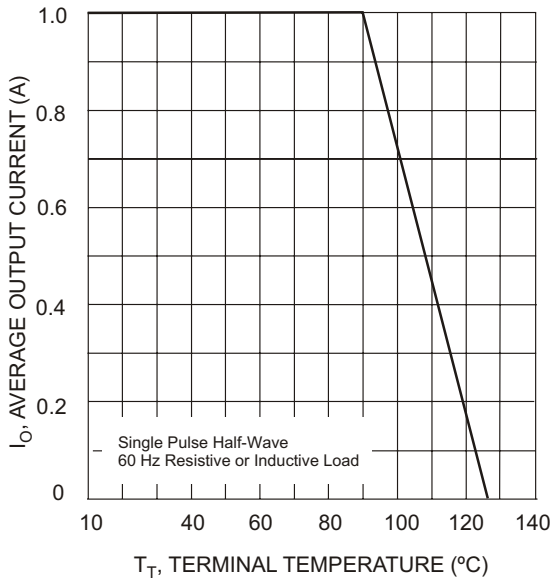


Fig. 1 Forward Current Derating Curve

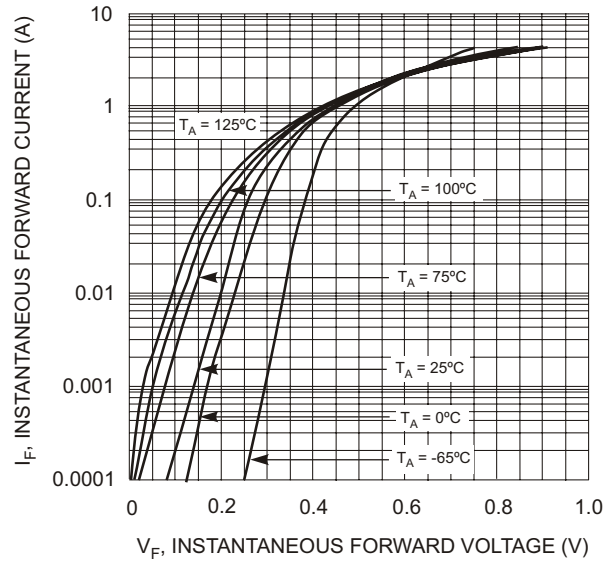


Fig. 2 Typical Forward Characteristics

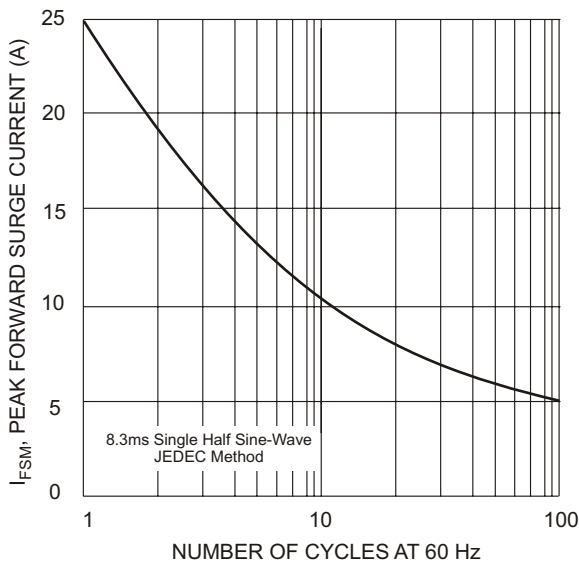


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

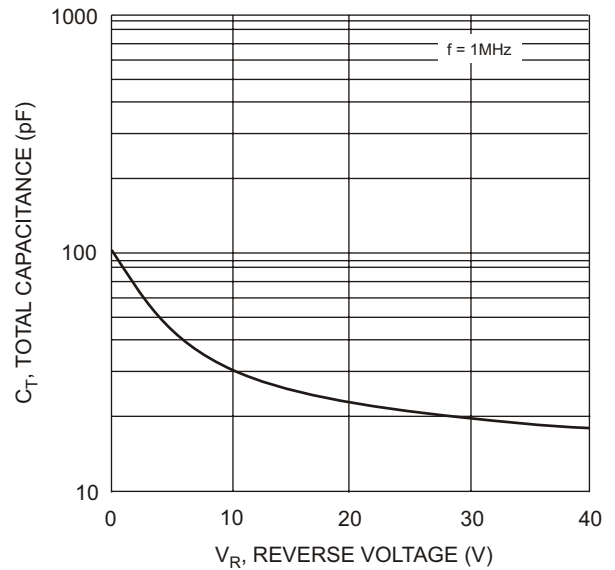


Fig. 4 Typical Total Capacitance