

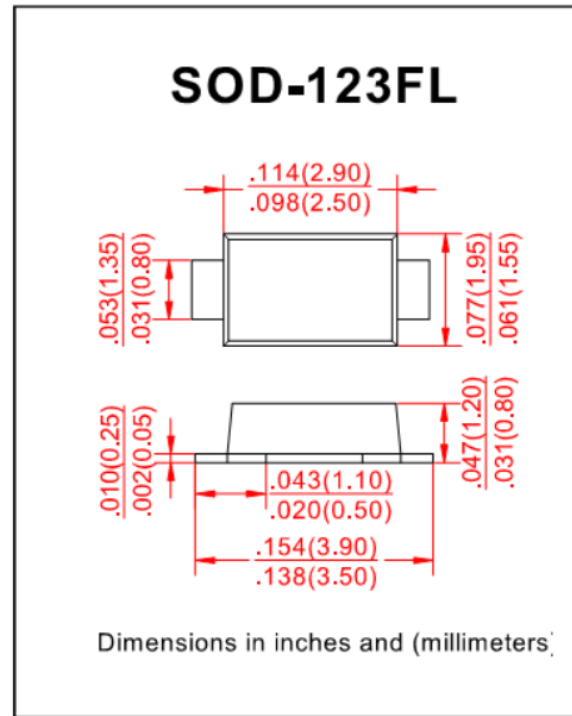
SS1020FL THRU SS10100FL SERIES

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 Characteristics @T_A=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 _F =1.0A	V _{FM}	0.55			0.75	0.85	V
Forward Continuous Current (Note 1)	I _F	1.0					A
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25					A
Power Dissipation (Note 1)	P _d	450					mW
Peak Reverse Leakage Current @V _R =50/100 DC Blocking Voltage	I _{RM}	500					μA
Typical Junction Capacitance(V _R =0V DC f=1MHZ)	C _j	50					pF
Operating and Storage Temperature Range	T _J T _{STG}	-65 to+ 125					°C

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

RATING AND CHARACTERISTIC CUEVES

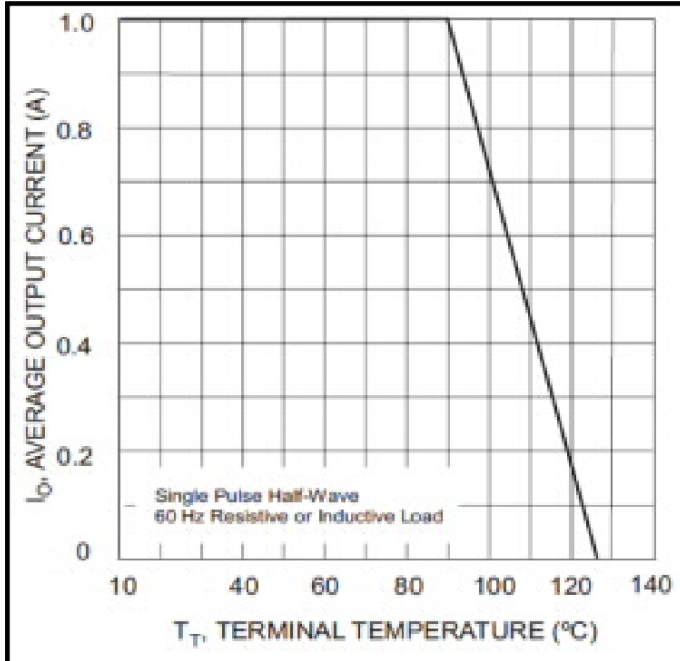


Fig.1 Forward Current Derating Curve

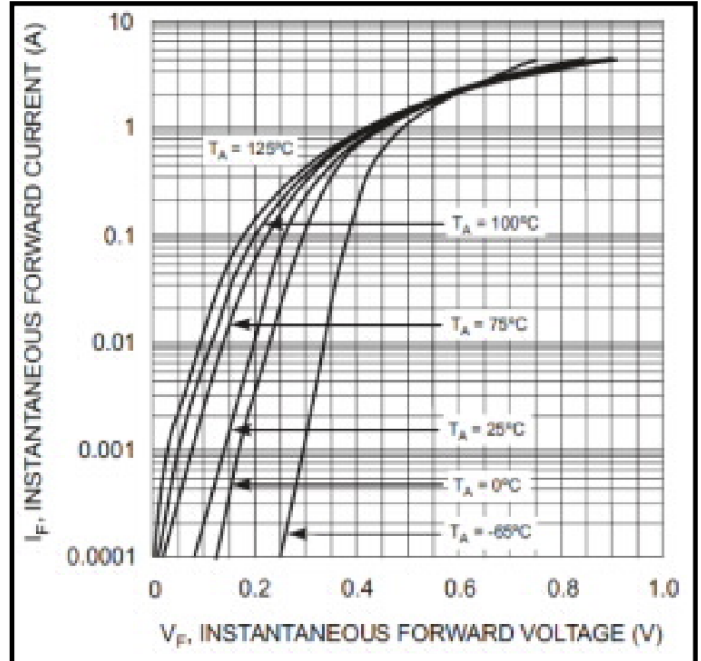


Fig.2 Typical Forward Characteristics

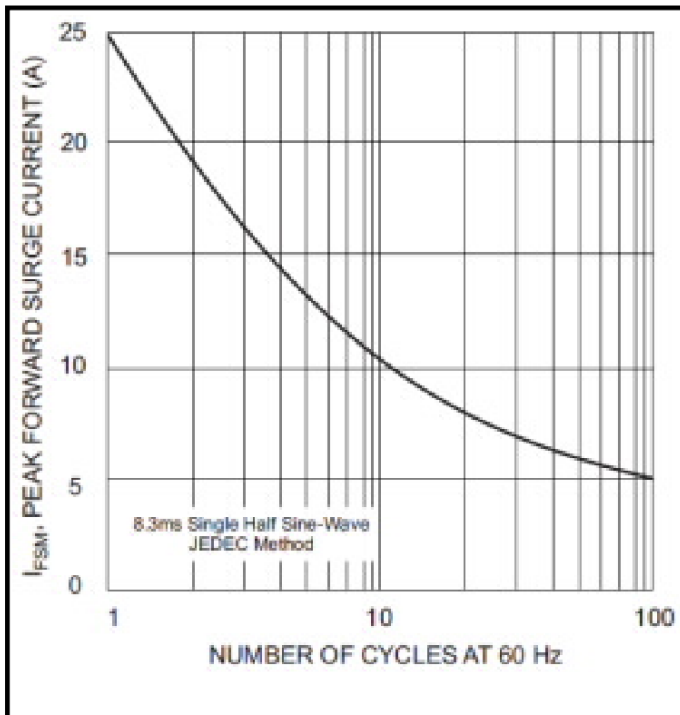


Fig.3 Maximum Non-Repetitive Peak Fwd Surge Current

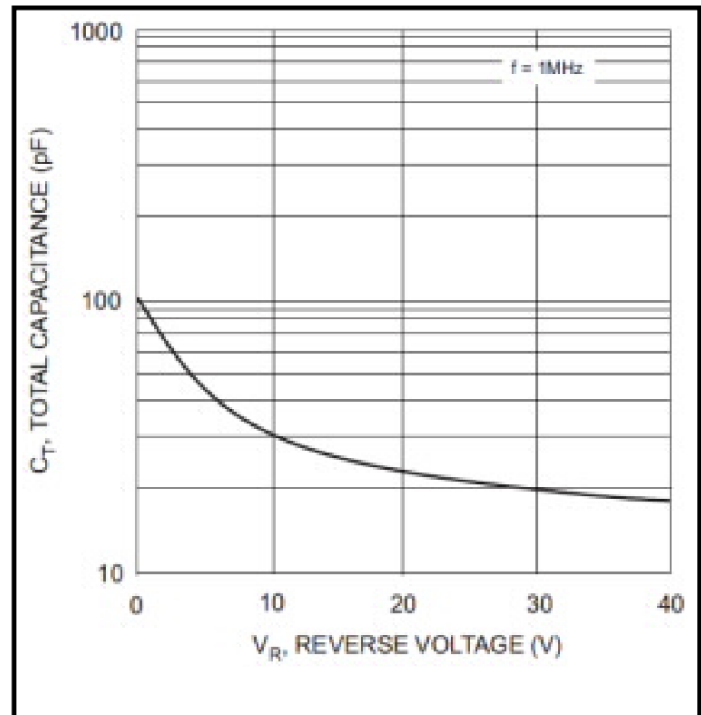


Fig.4 Typical Total Capacitance