

SINLOON®

小型化蕭特基二極管

Case: SOD-123FL

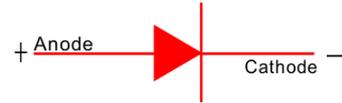
SS1020FL-SS10100FL

1A Surface Mount Schottky Barrier Diode

FEATURE:

- ◆ Fast Switching
- ◆ Low Turn-on Voltage
- ◆ Very small SMD package
- ◆ Designed for Surface Mount Application
- ◆ PN Junction Guard Ring for Transient and ESD Protection.
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

Figure: SOD-123FL

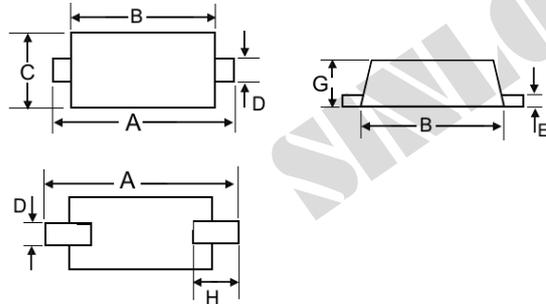


MECHANICAL CHARACTERISTICS:

- ◆ Case: SOD-123FL Molded Plastic
- ◆ Weight: 0.017 Grams (approx)
- ◆ Marking: Device Part Code
- ◆ Polarity: Cathode Band
- ◆ Terminals: Plated leads solder able per MIL-STD-202, Method 208.
- ◆ Lead Free for Rohm / Lead free version and "LF" suffix to part number.

DIMENSION:

Dimension (mm) SOD-123FL		
Dim.	Min.	Max.
A	3.50	3.7
B	2.65	2.95
C	1.65	1.95
D	0.75	1.05
E	0.1	0.20
G	0.98	1.08
H	0.5	0.8



Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Part Code	SS 1020FL	SS 1030FL	SS 1040FL	SS 1060FL	SS 10100FL	Unit	
	Symbol	G2	G3	G4	G6	G10		
DC Blocking Voltage:	V _R							
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	60	100	V	
Working Peak Reverse Voltage	V _{RWM}							
Forward Continuous Current (note 1)	I _F	1.0	1.0	1.0	1.0	1.0	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC)	I _{FSM}	25	25	25	25	25	A	
Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	85	85	85	85	85	°C/W	
Forward Voltage Drop @I _F = 0.5A	V _{FM}	0.52	0.55	0.55	0.7	0.85	V	
Peak Reverse Leakage Current @V _{RRM}	I _{RM}	100						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. Mounted on FR-4 PCB with 645mm² pad size.
 2. Measured at 1.0MHz and applied reverse voltage of 4V D.C.

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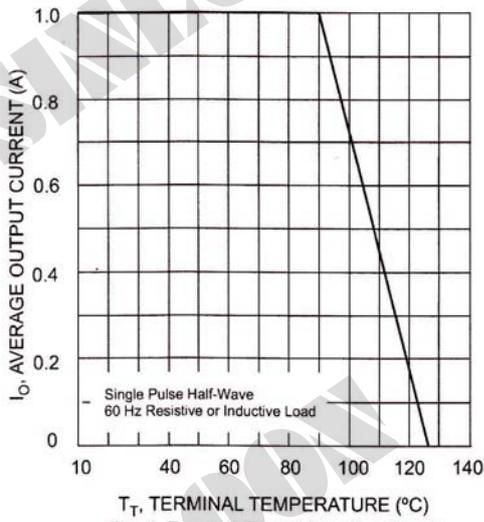


Fig. 1 Forward Current Derating Curve

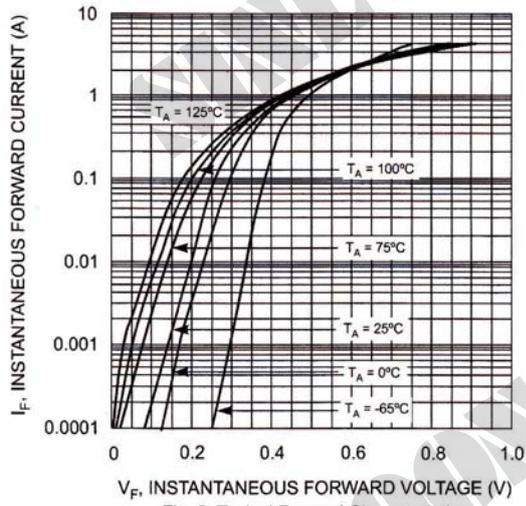


Fig. 2 Typical Forward Characteristics

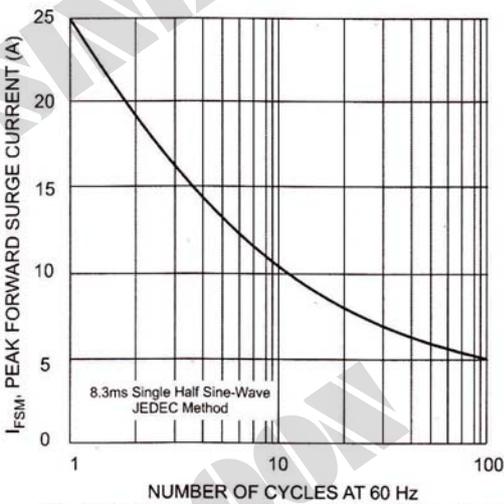


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

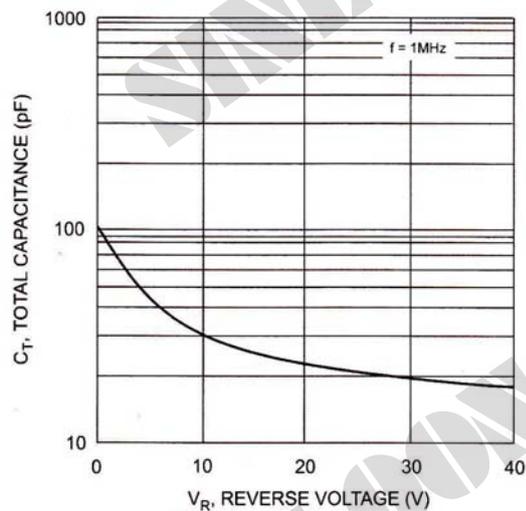


Fig. 4 Typical Total Capacitance

RECOMMENDED SOLDERING PROFILE:

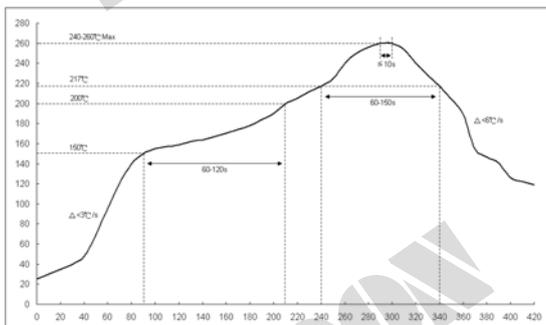


Fig 1: Reflow soldering profile for lead-free solder (SnAgCu)

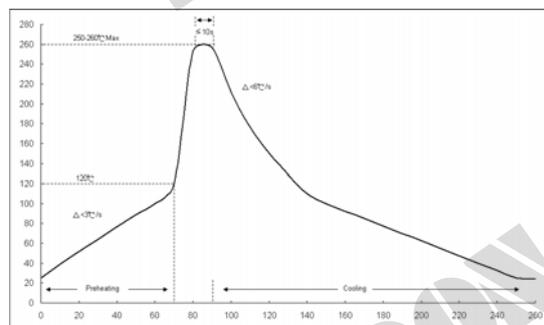


Fig 1: Wave soldering profile.

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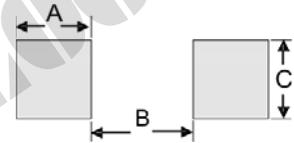
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RECOMMENDED SOLDERING FOOTPRINT

TYPE	Dimension inches inches (mm)					
	A		B		C	
SOD-123FL	0.047 in	1.20mm	0.072 in	1.85mm	0.047 in	1.20mm



MARKING INFORMATION

Cathode: Polarity Band
Marking: See part code



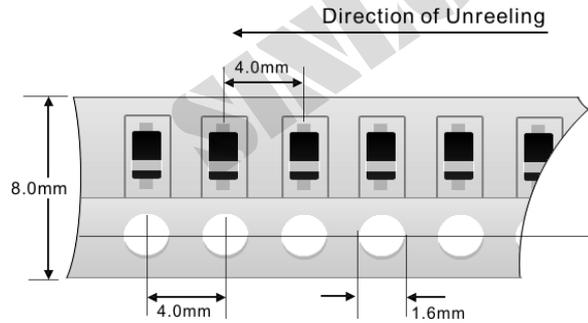
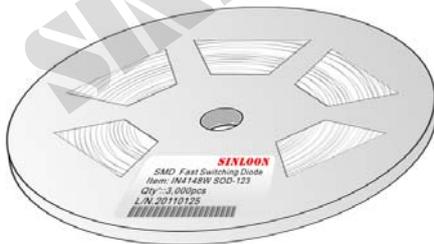
Part No.	Marking
SS1020FL	G2
SS1030FL	G3
SS1040FL	G4
SS1060FL	G6
SS10100FL	G10

COMMON PACKING INFORMATION:

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
SS0520FL~SS0540FL	SOD-123FL	3000 Tape & Reel	150,000 Ctn	10 Kg

Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size (mm)	Quantity	Carton Size (mm)
178	3000	L: 187 x W:187 x H: 65	15,000pcs	L:390 x W:240 x H:420

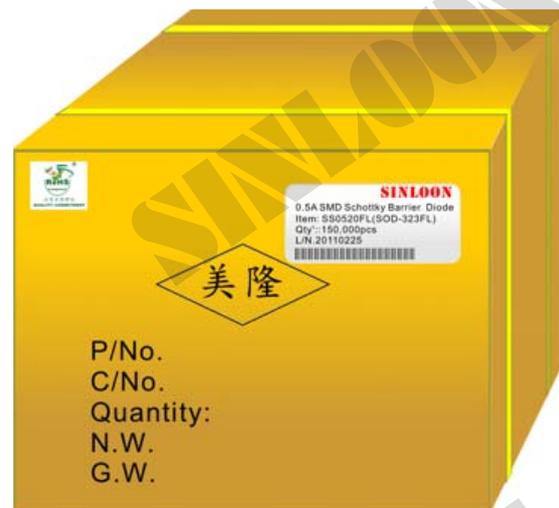
Reel Tape Fig-1



Inner Box Fig-2



Carton



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