

S1AL THRU S1ML General Purpose Rectifier Diodes

Features

•I_{F(AV)} 1A

- •VRRM 50V-1000V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

Rectifier

Marking

• AX X : From 1 To 7

Limiting Values(Absolute Maximum Rating)

SOD-123FL
₀₀

			Test Conditions	S1							
Item	Symbol	Unit		AL	BL	DL	GL	JL	KL	ML	
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	V		50	100	200	400	600	800	1000	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load , TL(Fig.1)	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave, 1 cycle,Ta=25℃	30							
Junction Temperature	TJ	°C		-55 ~ +150							
Storage Temperature	T _{STG}	°C		-55 ~ +150							

Electrical Characteristics (T=25°C Unless otherwise specified)

			Test Condition		S1								
ltem	Symbol	Unit			AL	BL	DL	GL	JL	KL	ML		
Maximum Peak Forward Voltage	V _F	V	I _F =1.0A		1.0								
Maximum Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	Ta=25℃				10					
	I _{RRM2}	μA		Ta=125℃				50					
Maximum Peak Forward Voltage	Сл	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C.		4								
Typical Thermal Resistance	$R_{\theta J-A}$	°C/₩	Between junct	ion and ambient	95								
Typical memaincesistance	$R_{\theta_{J-L}}$	0744	Between junction and terminal		10								

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

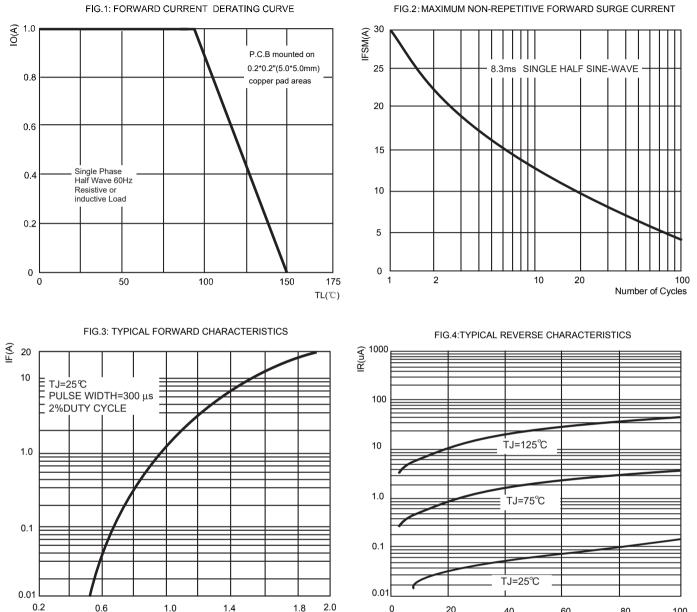


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

0.6

1.0

1.4

1.8

VF(V)

0

20

40

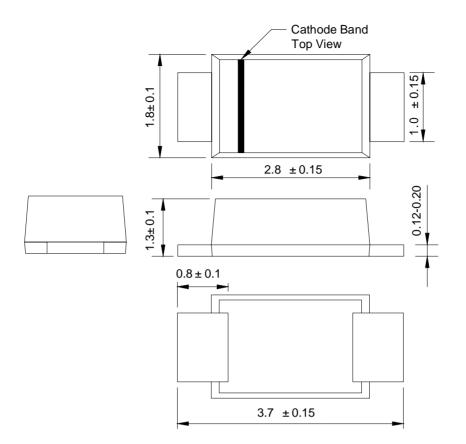
60

80

100

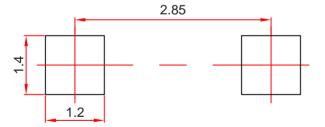
Voltage(%)

SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



Note:

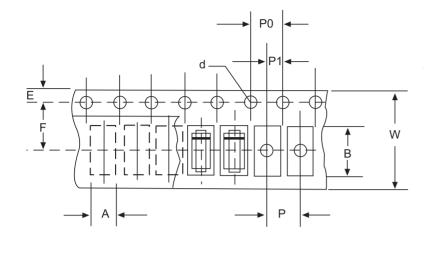
1.Controlling dimension:in millimeters. 2.General tolerance:±0.05mm.

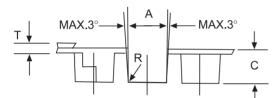
3. The pad layout is for reference purposes only.

NOTICE

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Reel Taping Specifications For Surface Mount Devices-SOD-123FL





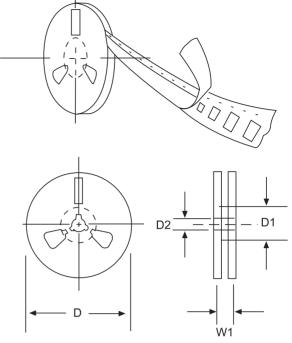


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	SOD-123FLmm(inch)
Carrier width	A	2.05±0.1(0.081±0.004)
Carrier length	В	3.95±0.1(0.156±0.004)
Carrier depth	С	1.45±0.1(0.057±0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)
Reel outside diameter	D	178±2.0(7.0±0.079)
Reel inner diameter	D1	54±1.0(2.13±0.039)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Strocket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	3.50±0.1(0.138±0.002)
Punch hole pitch	Р	4.0±0.1(0.157±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)
Totall tape thickness	Т	0.21±0.25(0.008±0.010)
Tape width	W	8.0±0.2(0.315±0.008)
Reel width	W1	10.0±2.0(0.394±0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.

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