



**SOD-123FL Plastic-Encapsulate Diodes**

**DSS22 THRU DSS210 Schottky Rectifier Diodes**

**Features**

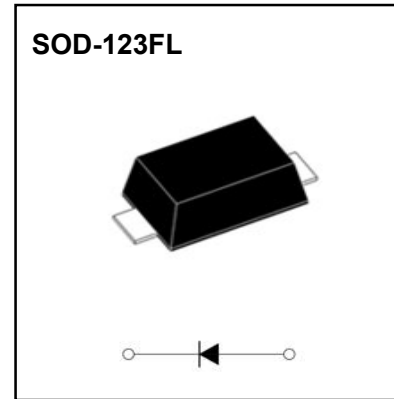
- $I_{F(AV)}$  2A
- $V_{RRM}$  20V-100V
- High surge current capability
- Polarity: Color band denotes cathode

**Applications**

- Rectifier

**Marking**

- DSS22-DSS210 : S22-S210



**Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Test Conditions	DSS						
				22	23	24	25	26	28	210
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		20	30	40	50	60	80	100
Maximum RMS Voltage	$V_{RMS}$	V		14	21	28	35	42	56	70
Maximum DC Blocking Voltage	$V_{DC}$	V		20	30	40	50	60	80	100
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=(Fig.1)$	2.0						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ C$	40						
Junction Temperature	$T_J$	$^\circ C$		-55~+125			-55~+150			
Storage Temperature	$T_{STG}$	$^\circ C$		-55 ~ +150						

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

Item	Symbol	Unit	Test Condition	DSS						
				22	23	24	25	26	28	210
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2.0A$	0.55			0.70		0.85	
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$			0.5		0.1	
	$I_{RRM2}$			$T_a=100^\circ C$			10		5.0	
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ C/W$	Between junction and ambient	75						
	$R_{\theta J-L}$		Between junction and terminal	17						

**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

# Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

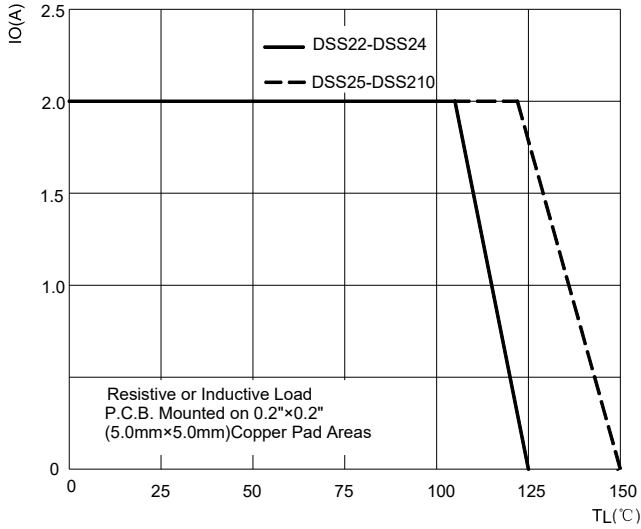


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

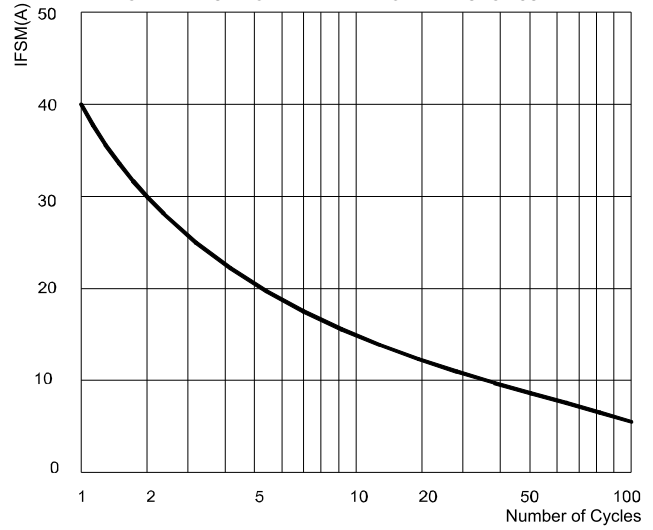


FIG.3: TYPICAL FORWARD CHARACTERISTICS

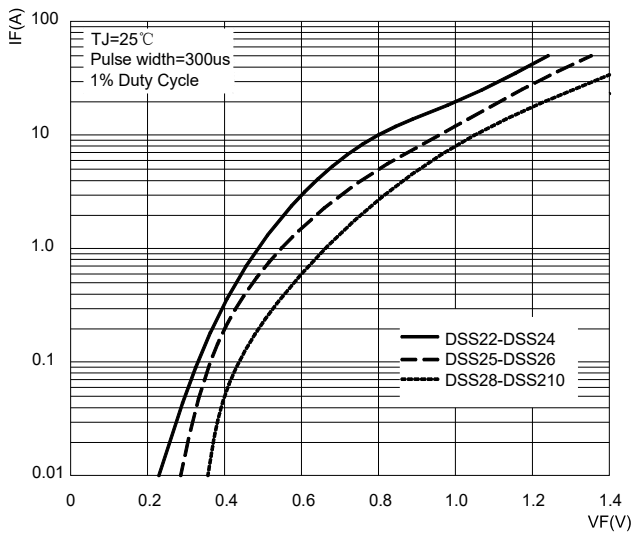
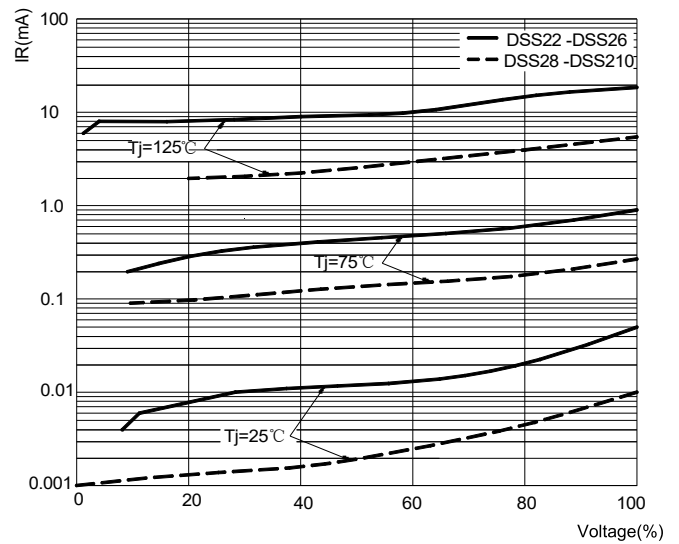
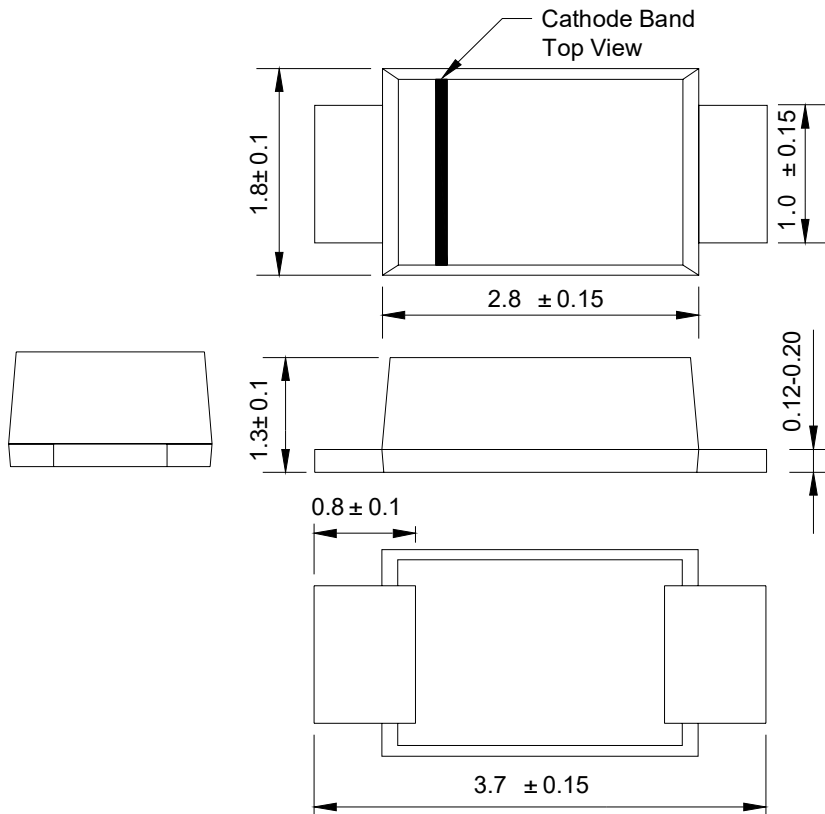


FIG.4: TYPICAL REVERSE CHARACTERISTICS

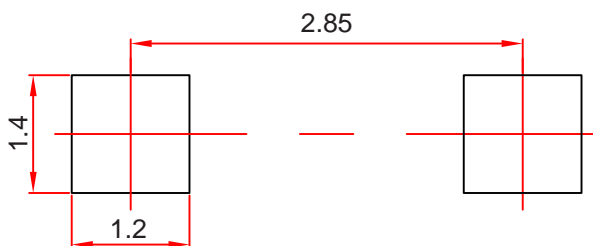


## SOD-123FL Package Outline Dimensions



Dimensions in millimeters

## SOD-123FL Suggested Pad Layout



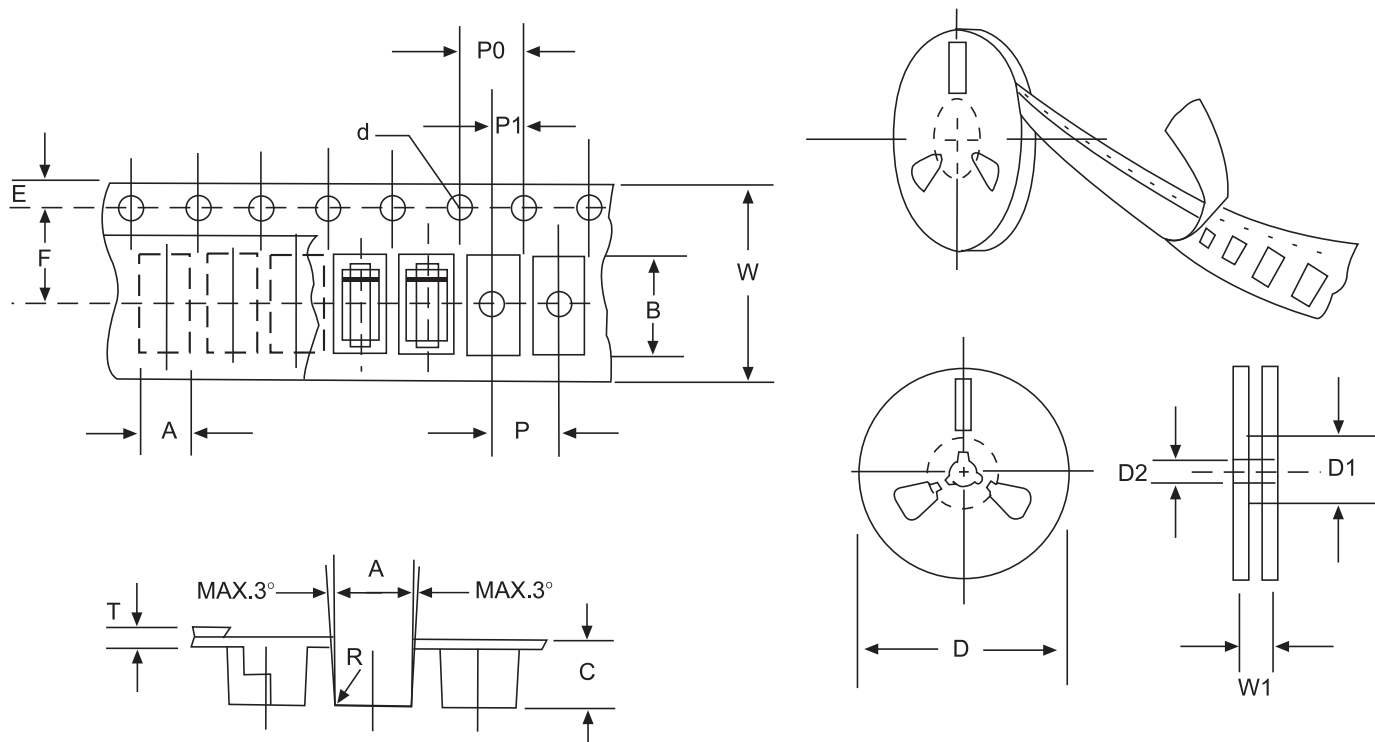
### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$  mm.
3. The pad layout is for reference purposes only.

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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	B	3.95±0.1(0.156±0.004)
Carrier depth	C	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)
Sprocket 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	P	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)
Total tape thickness	T	0.21±0.025(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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