

Features

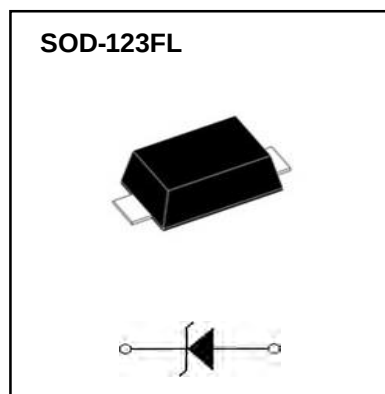
- P_{tot} 1.0W
- V_Z 3.3V- 300V
- The marking bar indicates the cathode

Applications

- Stabilizing Voltage

Marking

- SMF47XXA
XX : From 28 To 64 ($V_Z < 100V$)
- SMF1XXXXA
XXX : From 110 To 300 ($V_Z > 100V$)



Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Max
Power dissipation	P_d	W	$T_L = 75^\circ\text{C}$	1.0
Zener current	I_Z	mA		P_V / V_Z
Operation Junction and Storage Temperature Range	T_J, T_{stg}	$^\circ\text{C}$		-55 ~ +150

Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Max
Thermal resistance	$R_{\theta JA}$	$^\circ\text{C/W}$	Between junction to ambient	170
	$R_{\theta JL}$	$^\circ\text{C/W}$	Between junction to lead	26
Forward voltage	V_F	V	$I_F = 200\text{mA}$	1.5

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Type Number	Marking Code	Zener Voltage			Test Current	Maximum Zener Impedance			Maximum Reverse Current		Maximum Zener Current
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}		I _R @ V _R		I _{ZM}
		Nom (V)	Min (V)	Max (V)	mA	Ω	Ω	mA	μA	V	mA
SMF4733A	733A	5.1	4.8	5.4	49	7	550	1	10	1	178
SMF4734A	734A	5.6	5.3	5.9	45	5	600	1	10	2	162
SMF4735A	735A	6.2	5.8	6.6	41	2	700	1	10	3	146
SMF4736A	736A	6.8	6.4	7.2	37	3.5	700	1	50	4	133
SMF4737A	737A	7.5	7.1	7.9	34	4	700	0.5	50	5	121
SMF4738A	738A	8.2	7.7	8.7	31	4.5	700	0.5	50	6	110
SMF4739A	739A	9.1	8.6	9.6	28	5	700	0.5	50	7	100
SMF4740A	740A	10	9.5	10.5	25	7	700	0.25	50	7.6	91
SMF4741A	741A	11	10.4	11.6	23	8	700	0.25	50	8.4	83
SMF4742A	742A	12	11.4	12.6	21	9	700	0.25	5	9.1	76
SMF4743A	743A	13	12.3	13.7	19	10	700	0.25	5	9.9	69
SMF4744A	744A	15	14.2	15.8	17	14	700	0.25	5	11.4	61
SMF4745A	745A	16	15.2	16.8	15.5	16	700	0.25	5	12.2	57
SMF4746A	746A	18	17.1	18.9	14	20	750	0.25	5	13.7	50
SMF4747A	747A	20	19	21	12.5	22	750	0.25	5	15.2	45
SMF4748A	748A	22	20.9	23.1	11.5	23	750	0.25	5	16.7	41
SMF4749A	749A	24	22.8	25.2	10.5	25	750	0.25	5	18.2	38
SMF4750A	750A	27	25.6	28.4	9.5	35	750	0.25	5	20.6	34
SMF4751A	751A	30	28.5	31.5	8.5	40	1000	0.25	5	22.8	30
SMF4752A	752A	33	31.3	34.7	7.5	45	1000	0.25	5	25.1	27
SMF4753A	753A	36	34.2	37.8	7	50	1000	0.25	5	27.4	25
SMF4754A	754A	39	37	41	6.5	60	1000	0.25	5	29.7	23
SMF4755A	755A	43	40.8	45.2	6	70	1500	0.25	5	32.7	22
SMF4756A	756A	47	44.6	49.4	5.5	80	1500	0.25	5	35.8	19
SMF4757A	757A	51	48.4	53.6	5	95	1500	0.25	5	38.8	18
SMF4758A	758A	56	53.2	58.8	4.5	110	2000	0.25	5	42.6	16
SMF4759A	759A	62	58.9	65.1	4	125	2000	0.25	5	47.1	14
SMF4760A	760A	68	64.6	71.4	3.7	150	2000	0.25	5	51.7	13
SMF4761A	761A	75	71.2	78.8	3.3	175	2000	0.25	5	56	12
SMF4762A	762A	82	77.9	86.1	3	200	3000	0.25	5	62.2	11
SMF4763A	763A	91	86.4	95.6	2.8	250	3000	0.25	5	69.2	10
SMF4764A	764A	100	95	105	2.5	350	3000	0.25	5	76	9

Typical Characteristics

FIG1: Maximum Continuous Power Dissipation

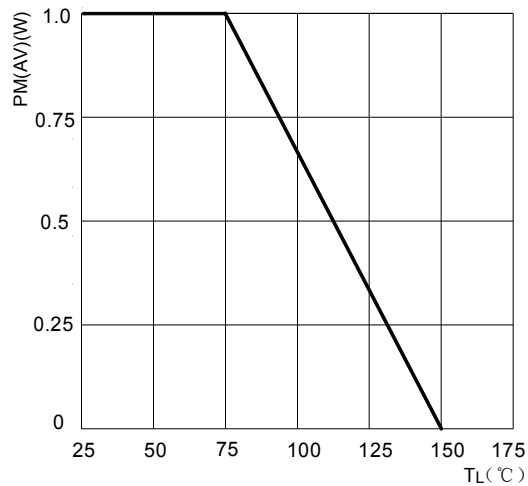


FIG2: Typical Zener Impedance

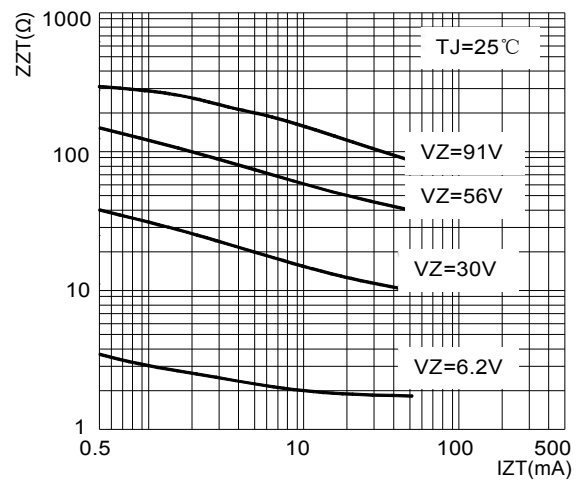


FIG3: Typical Temperature Coefficients

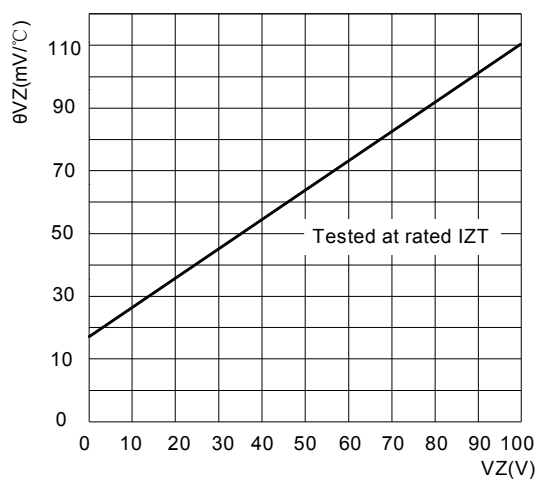


FIG4: Typical Instantaneous Forward Characteristics for SMF4763A

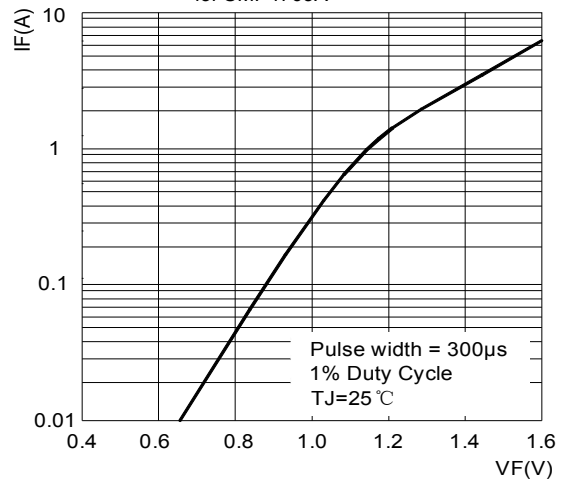
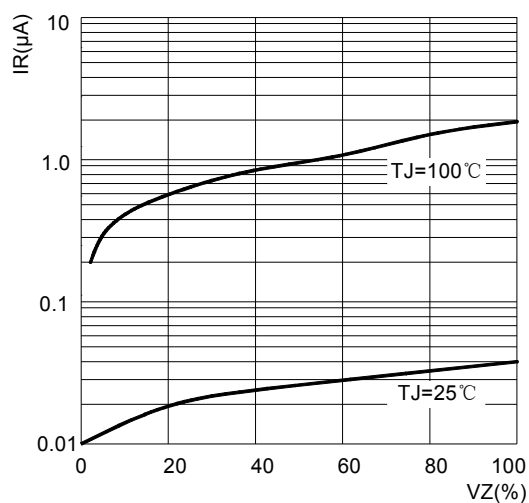
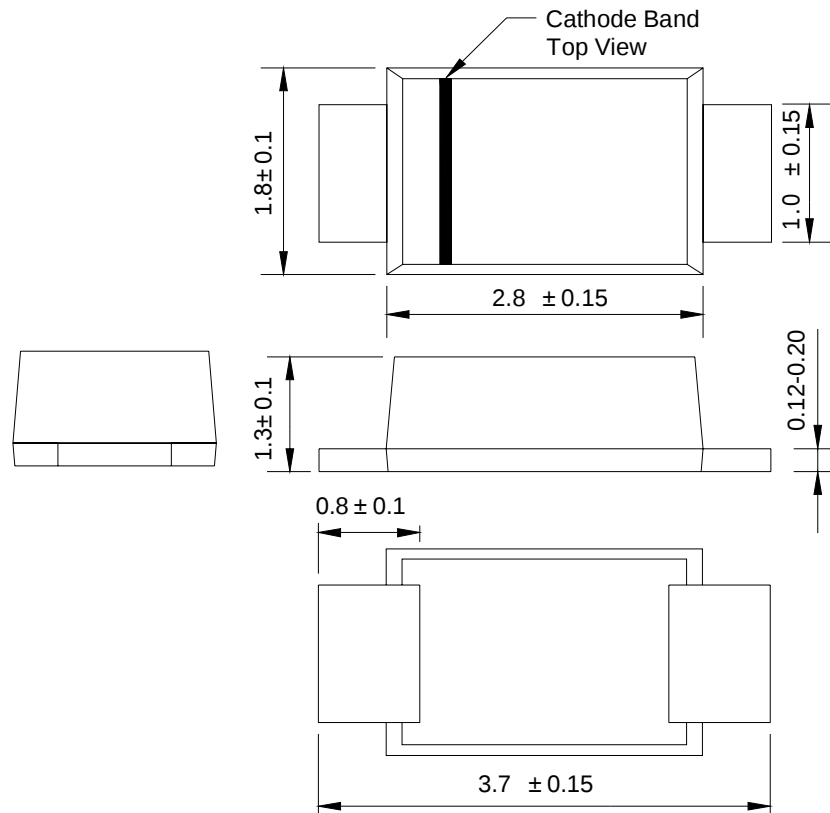


FIG5: Typical Reverse Characteristics

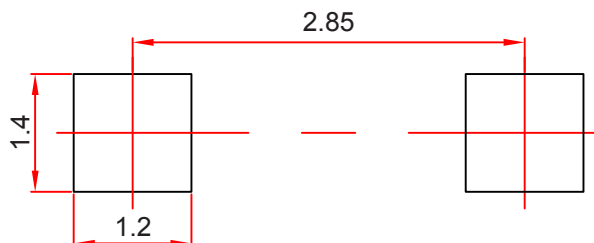


SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



Note:

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

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

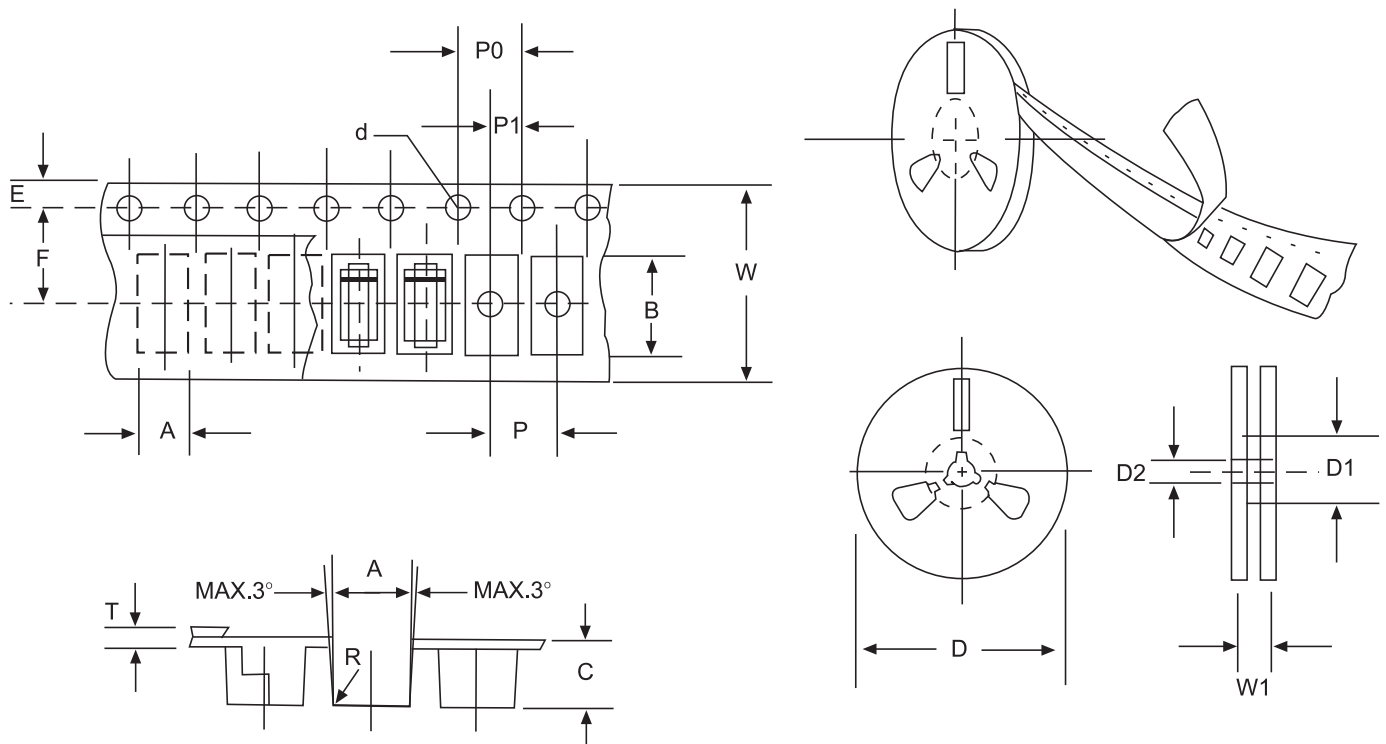


FIG:CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

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)
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	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)
Totall tape thickness	T	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.