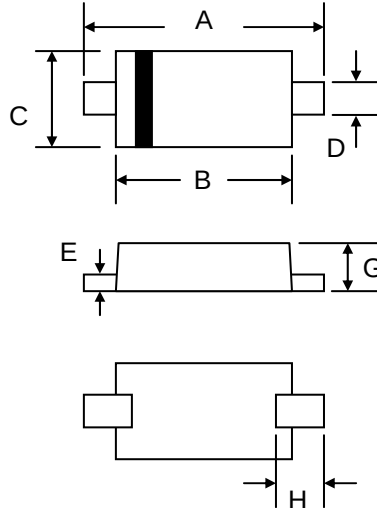


Features

- Glass Passivated Die Construction
- 1.0 Watt Power Dissipation
- 6.8 – 100V Nominal Zener Voltage
- 5% Standard Vz Tolerance
- Low Inductance
- Plastic Material – UL Recognition Flammability Classification 94V-O



SOD-123FL		
Dim	Min	Max
A	3.30	3.70
B	2.60	2.95
C	1.65	1.95
D	0.75	1.35
E	0.10	0.20
G	0.98	1.08
H	0.50	0.80
All Dimensions in mm		

Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band Except Bi-Directional
- Weight: 0.017 grams (approx.)
- Marking: Device Code
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation at T _L = 50°C (Note 1) Derate above 50°C	P _d	1.0	W
Thermal Resistance Junction to Air (Note 2)	R _{θJA}	150	°C/W
Forward Voltage @ I _F = 200mA	V _F	1.2	V
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Note: 1. Mounted on PC board with 8.0mm² (2.0mm thick) copper pad.
2. Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics @T_A=25°C unless otherwise specified

Type Number (Note 1)	Device Marking Code	Nominal Zener Voltage	Test Current	Maximum Zener Impedance (Note 2)			Leakage Current		Max Surge Current 8.3ms
		V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R	@ V _R	I _{RM}
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA _{pk})
SML4736A	36A	6.8	37	3.5	700	1.0	10	4.0	660
SML4737A	37A	7.5	34	4.0	700	0.5	10	5.0	605
SML4738A	38A	8.2	31	4.5	700	0.5	10	6.0	550
SML4739A	39A	9.1	28	5.0	700	0.5	10	7.0	500
SML4740A	40A	10	25	7.0	700	0.25	10	7.6	454
SML4741A	41A	11	23	8.0	700	0.25	5.0	8.4	414
SML4742A	42A	12	21	9.0	700	0.25	5.0	9.1	380
SML4743A	43A	13	19	10	700	0.25	5.0	9.9	344
SML4744A	44A	15	17	14	700	0.25	5.0	11.4	305
SML4745A	45A	16	15.5	16	700	0.25	5.0	12.2	285
SML4746A	46A	18	14	20	750	0.25	5.0	13.7	250
SML4747A	47A	20	12.5	22	750	0.25	5.0	15.2	225
SML4748A	48A	22	11.5	23	750	0.25	5.0	16.7	205
SML4749A	49A	24	10.5	25	750	0.25	5.0	18.2	190
SML4750A	50A	27	9.5	35	750	0.25	5.0	20.6	170
SML4751A	51A	30	8.5	40	1000	0.25	5.0	22.8	150
SML4752A	52A	33	7.5	45	1000	0.25	5.0	25.1	135
SML4753A	53A	36	7.0	50	1000	0.25	5.0	27.4	125
SML4754A	54A	39	6.5	60	1000	0.25	5.0	29.7	115
SML4755A	55A	43	6.0	70	1500	0.25	5.0	32.7	110
SML4756A	56A	47	5.5	80	1500	0.25	5.0	35.8	95
SML4757A	57A	51	5.0	95	1500	0.25	5.0	38.8	90
SML4758A	58A	56	4.5	110	2000	0.25	5.0	42.6	80
SML4759A	59A	62	4.0	125	2000	0.25	5.0	47.1	70
SML4760A	60A	68	3.7	150	2000	0.25	5.0	51.7	65
SML4761A	61A	75	3.3	175	2000	0.25	5.0	56.0	60
SML4762A	62A	82	3.0	200	3000	0.25	5.0	62.2	55
SML4763A	63A	91	2.8	250	3000	0.25	5.0	69.2	50
SML4764A	64A	100	2.5	350	3000	0.25	5.0	76.0	45

Note: 1. Type numbers listed have standard tolerance on the nominal zener voltage of ±5%.

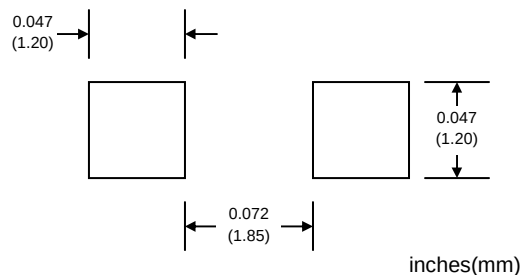
2. The Zener impedance is derived from the 60Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

MARKING INFORMATION



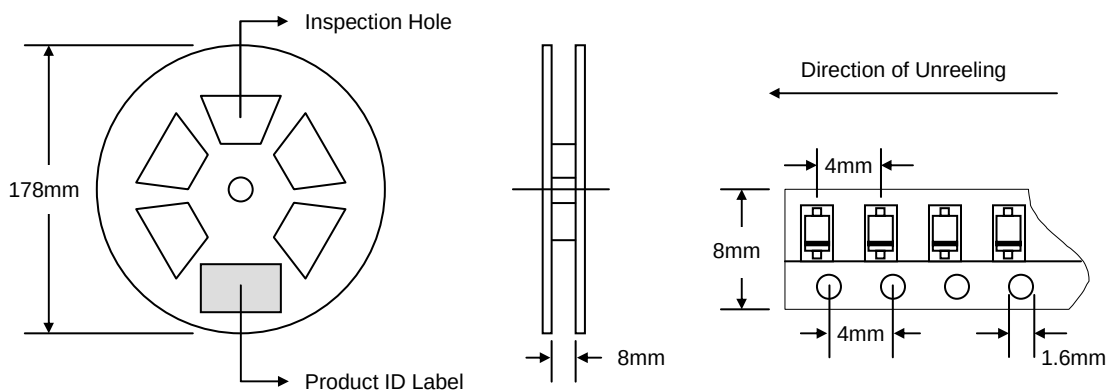
Cathode = Polarity Band
xx = Device Code, See Page 2

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SML47xxA-T1	SOD-123FL	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version, add “-LF” suffix to part number above. For example, SML4736A-T1-LF.**

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Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417

Email: sales@wontop.com

Internet: <http://www.wontop.com>

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