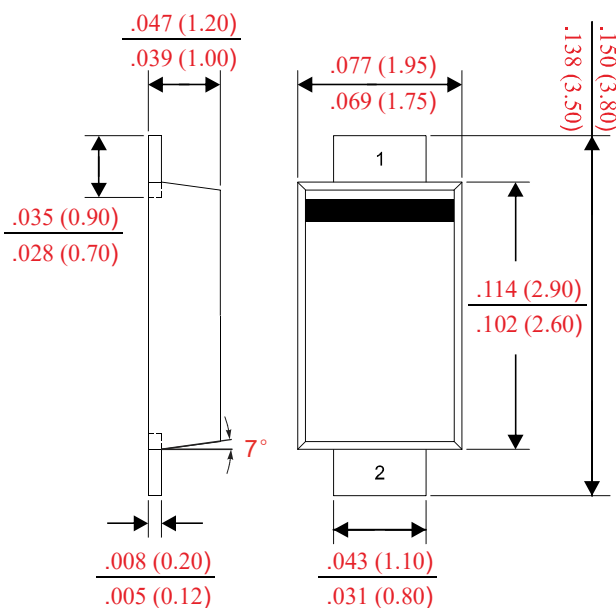


OUTLINE

SOD-123FL



Dimensions in inches and (millimeters)

FEATURES

- For surface mount application.
- Low inductance.
- Excellent clamping capability.
- Low profile package.
- Flammability Classification 94V-0.
- High temperature soldering guaranteed.
260°C / 10 seconds at terminals.

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Band denotes cathode
- Mounting position: Any
- Weight: 0.00048 ounce, 15 milligram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

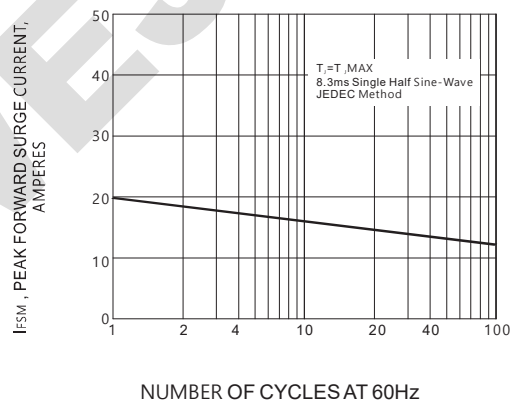
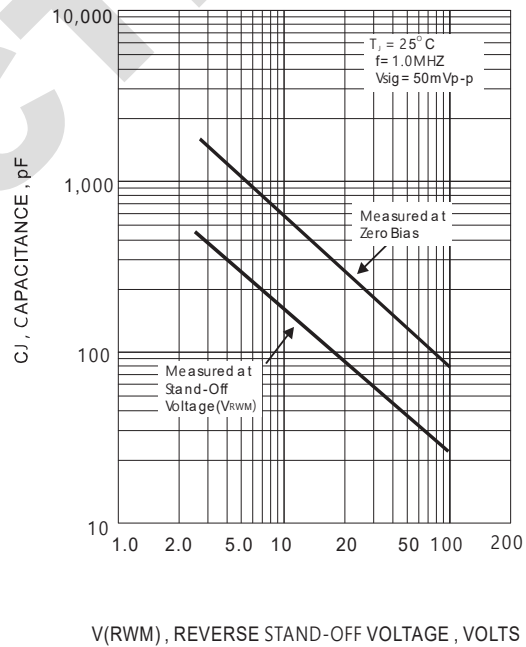
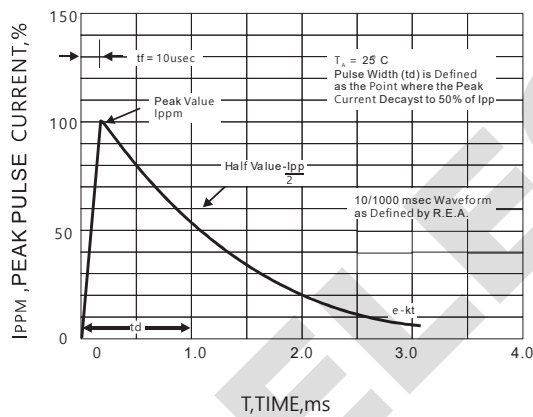
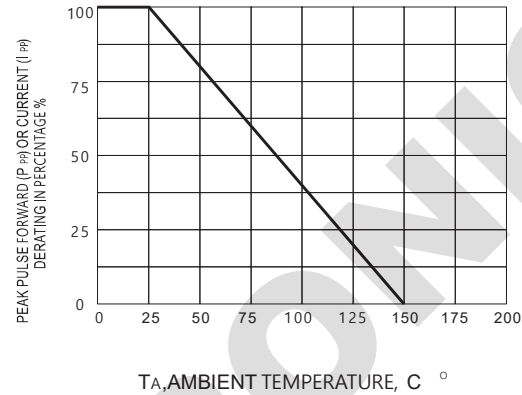
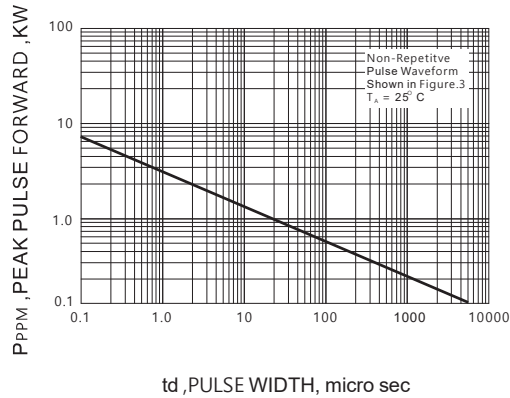
Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Units
Peak Pulse Power Dissipation on $T_A=25^\circ\text{C}$ (Note 1,2,4, Fig 1)	P_{PK}	200	Watts
Peak Forward Surge Current (Note 3, Fig 5)	I_{FSM}	20	Amp
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)	I_{PPM}	see Table 1	Amp
Operating Junction Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

NOTE:

1. Non-repetitive current pulse per Fig. 3 and derated above $T_A=25^\circ\text{C}$ per Fig. 2.
2. Mounted on 5mm x 5mm cooper pads to each terminal.
3. Peak Forward Surge Current: 8.3ms single half sine-wave Superimposed on rated load (JEDEC method).
4. Peak pulse power waveform is 10/1000uS.

RATINGS AND CHARACTERISTIC CURVES



Part number (uni)	Part number (bi)	VRWM (V)	VBR@IT (V)		IT (mA)	IR@ VRWM (μA)	VC @IPP(V)	IPP (A)	Marking Code	
			Min	Max					uni	bi
SMF5.0A	SMF5.0CA	5.0	6.40	7.00	10	800	9.2	21.74	5.0A	5.0CA
SMF6.0A	SMF6.0CA	6.0	6.67	7.37	10	800	10.3	19.42	6.0A	6.0CA
SMF6.5A	SMF6.5CA	6.5	7.22	7.98	10	500	11.2	17.86	6.5A	6.5CA
SMF7.0A	SMF7.0CA	7.0	7.78	8.60	10	200	12.0	16.67	7.0A	7.0CA
SMF7.5A	SMF7.5CA	7.5	8.33	9.21	1	100	12.9	15.50	7.5A	7.5CA
SMF8.0A	SMF8.0CA	8.0	8.89	9.83	1	50	13.6	14.71	8.0A	8.0CA
SMF8.5A	SMF8.5CA	8.5	9.44	10.40	1	20	14.4	13.89	8.5A	8.5CA
SMF9.0A	SMF9.0CA	9.0	10.00	11.10	1	10	15.4	12.99	9.0A	9.0CA
SMF10A	SMF10CA	10.0	11.10	12.30	1	5	17.0	11.76	10A	10CA
SMF11A	SMF11CA	11.0	12.20	13.50	1	5	18.2	10.99	11A	11CA
SMF12A	SMF12CA	12.0	13.30	14.70	1	1	19.9	10.05	12A	12CA
SMF13A	SMF13CA	13.0	14.40	15.90	1	1	21.5	9.30	13A	13CA
SMF14A	SMF14CA	14.0	15.60	17.20	1	1	23.2	8.62	14A	14CA
SMF15A	SMF15CA	15.0	16.70	18.50	1	1	24.4	8.20	15A	15CA
SMF16A	SMF16CA	16.0	17.80	19.70	1	1	26.0	7.69	16A	16CA
SMF17A	SMF17CA	17.0	18.90	20.90	1	1	27.6	7.25	17A	17CA
SMF18A	SMF18CA	18.0	20.00	22.10	1	1	29.2	6.85	18A	18CA
SMF20A	SMF20CA	20.0	22.20	24.50	1	1	32.4	6.17	20A	20CA
SMF22A	SMF22CA	22.0	24.40	26.90	1	1	35.5	5.63	22A	22CA
SMF24A	SMF24CA	24.0	26.70	29.50	1	1	38.9	5.14	24A	24CA
SMF26A	SMF26CA	26.0	28.90	31.90	1	1	42.1	4.75	26A	26CA
SMF28A	SMF28CA	28.0	31.10	34.40	1	1	45.4	4.41	28A	28CA
SMF30A	SMF30CA	30.0	33.30	36.80	1	1	48.4	4.13	30A	30CA
SMF33A	SMF33CA	33.0	36.70	40.60	1	1	53.3	3.75	33A	33CA
SMF36A	SMF36CA	36.0	40.00	44.20	1	1	58.1	3.44	36A	36CA
SMF40A	SMF40CA	40.0	44.40	49.10	1	1	64.5	3.10	40A	40CA
SMF43A	SMF43CA	43.0	47.80	52.80	1	1	69.4	2.88	43A	43CA
SMF45A	SMF45CA	45.0	50.00	55.30	1	1	72.7	2.75	45A	45CA
SMF48A	SMF48CA	48.0	53.30	58.90	1	1	77.4	2.58	48A	48CA
SMF51A	SMF51CA	51.0	56.70	62.70	1	1	82.4	2.43	51A	51CA
SMF54A	SMF54CA	54.0	60.00	66.30	1	1	87.1	2.30	54A	54CA
SMF58A	SMF58CA	58.0	64.40	71.20	1	1	93.6	2.14	58A	58CA
SMF60A	SMF60CA	60.0	66.70	73.70	1	1	96.8	2.07	60A	60CA
SMF64A	SMF64CA	64.0	71.10	78.60	1	1	103.0	1.94	64A	64CA
SMF70A	SMF70CA	70.0	77.80	86.00	1	1	113.0	1.77	70A	70CA
SMF75A	SMF75CA	75.0	83.20	92.10	1	1	121.0	1.65	75A	75CA
SMF78A	SMF78CA	78.0	86.70	95.80	1	1	126.0	1.59	78A	78CA
SMF85A	SMF85CA	85.0	94.40	104.00	1	1	137.0	1.46	85A	85CA
SMF90A	SMF90CA	90.0	100.00	111.00	1	1	146.0	1.37	90A	90CA
SMF100A	SMF100CA	100.0	111.00	123.00	1	1	162.0	1.23	100A	100CA
SMF110A	SMF110CA	110.0	122.00	135.00	1	1	177.0	1.13	110A	110CA
SMF120A	SMF120CA	120.0	133.00	147.00	1	1	193.0	1.04	120A	120CA
SMF130A	SMF130CA	130.0	144.00	159.00	1	1	209.0	0.96	130A	130CA
SMF150A	SMF150CA	150.0	167.00	185.00	1	1	243.0	0.82	150A	150CA
SMF160A	SMF160CA	160.0	178.00	197.00	1	1	259.0	0.77	160A	160CA
SMF170A	SMF170CA	170.0	189.00	209.00	1	1	275.0	0.73	170A	170CA
SMF180A	SMF180CA	180.0	201.00	222.00	1	1	292.0	0.68	180A	180CA
SMF190A	SMF190CA	190.0	211.00	233.00	1	1	308.0	0.65	190A	190CA
SMF200A	SMF200CA	200.0	224.00	247.00	1	1	324.0	0.62	200A	200CA
SMF210A	SMF210CA	210.0	237.00	263.00	1	1	340.0	*	210A	210CA
SMF220A	SMF220CA	220.0	246.00	272.00	1	1	356.0	0.56	220A	220CA
SMF250A	SMF250CA	250.0	279.00	309.00	1	1	405.0	*	250A	250CA
SMF300A	SMF300CA	300.0	335.00	371.00	1	1	486.0	*	300A	300CA
SMF350A	SMF350CA	350.0	391.00	435.00	1	1	567.0	*	350A	350CA
SMF400A	SMF400CA	400.0	447.00	494.00	1	1	648.0	*	400A	400CA
SMF440A	SMF440CA	440.0	492.00	543.00	1	1	713.0	*	440A	440CA