

4SMF5.0(C)A THRU 4SMF85(C)A

PPPM 400 W
VRWM 5.0 to 85 V

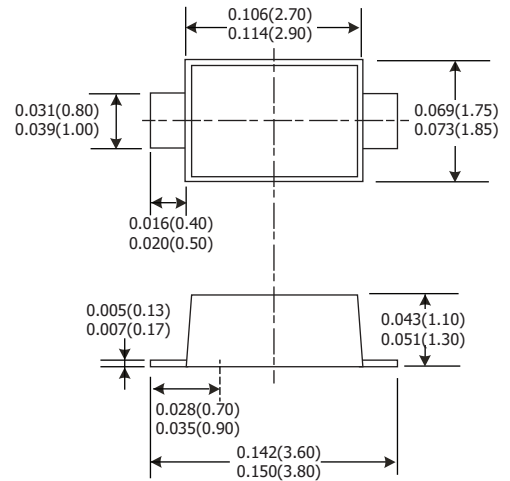
Features

- Glass passivated chip
- 400 W peak pulse power capability with a 10/1000 μ s waveform, repetitive rate (duty cycle):0.01%
- Repetitive rate(duty cycle) : 0.01 %
- Typical IR less than 1 μ A above 10V
- Excellent clamping capability
- Very fast response time
- High temperature soldering : 260°C/10s at terminals.
- RoHS compliant

Mechanical Data

- Case : SOD-123FL, Molded plastic
- Polarity : Color band denotes cathode end except Bipolar
- Mounting position : Any

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified)

Items	Symbols	Value	Units
Peak power dissipation with a 10/1000 μ s waveform	PPPM	400	W
Peak pulse current with a 10/1000 μ s waveform	I _{PP}	See next table	A
Power dissipation on infinite heatsink at T _L = 75°C	P _D	2.8	W
Maximum instantaneous forward voltage at 20A for unidirectional	V _F	5.0	V
Operating junction and storage temperature range	T _J , T _{STG}	-55 to + 150	°C

RATINGS AND CHARACTERISTIC CURVES 4SMF5.0(C)A THRU 4SMF85(C)A

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Part Number		Reverse Stand-Off Voltage VRWM(V)	Breakdown Voltage VBR (V) @IT		Test Current IT (mA)	Clamping Voltage Vc	Peak Pulse Current	Reverse Leakage IR @VRWM
Uni	Bi		MIN	MAX				
4SMF5.0A	4SMF5.0CA	5.0	6.40	7.00	10	9.2	40.1	120
4SMF6.0A	4SMF6.0CA	6.0	6.67	7.37	10	10.3	35.9	120
4SMF6.5A	4SMF6.5CA	6.5	7.22	7.98	10	11.2	33.1	80
4SMF7.0A	4SMF7.0CA	7.0	7.78	8.60	10	12.0	30.9	50
4SMF7.5A	4SMF7.5CA	7.5	8.33	9.21	1	12.9	28.7	50
4SMF8.0A	4SMF8.0CA	8.0	8.89	9.83	1	13.6	27.2	20
4SMF9.0A	4SMF9.0CA	9.0	10.00	11.10	1	15.4	24.1	5
4SMF10A	4SMF10CA	10.0	11.10	12.30	1	17.0	23.5	2
4SMF11A	4SMF11CA	11.0	12.20	13.50	1	18.2	22.0	1
4SMF12A	4SMF12CA	12.0	13.30	14.70	1	19.9	20.1	1
4SMF13A	4SMF13CA	13.0	14.40	15.90	1	21.5	18.6	1
4SMF14A	4SMF14CA	14.0	15.60	17.20	1	23.2	17.2	1
4SMF15A	4SMF15CA	15.0	16.70	18.50	1	24.4	16.4	1
4SMF17A	-	17.0	18.90	20.90	1	27.6	14.5	1
4SMF18A	4SMF18CA	18.0	20.00	22.10	1	29.2	13.7	1
4SMF20A	4SMF20CA	20.0	22.20	24.50	1	32.4	12.3	1
4SMF22A	4SMF22CA	22.0	24.40	26.90	1	35.5	11.3	1
4SMF24A	4SMF24CA	24.0	26.70	29.50	1	38.9	10.3	1
4SMF26A	4SMF26CA	26.0	28.90	31.90	1	42.1	9.5	1
4SMF28A	4SMF28CA	28.0	31.10	34.40	1	45.4	8.8	1
4SMF30A	4SMF30CA	30.0	33.30	36.80	1	48.4	8.3	1
4SMF33A	4SMF33CA	33.0	36.70	40.60	1	53.3	7.5	1
4SMF36A	4SMF36CA	36.0	40.00	44.20	1	58.1	6.9	1
4SMF40A	4SMF40CA	40.0	44.40	49.10	1	64.5	6.2	1
4SMF43A	4SMF43CA	43.0	47.80	52.80	1	69.4	5.8	1
4SMF45A	4SMF45CA	45.0	50.00	55.30	1	72.7	5.5	1
4SMF48A	4SMF48CA	48.0	53.30	58.90	1	77.4	5.2	1
4SMF51A	4SMF51CA	51.0	56.70	62.70	1	82.4	4.9	1
4SMF58A	4SMF58CA	58.0	64.40	71.20	1	93.6	4.3	1
4SMF60A	4SMF60CA	60.0	66.70	73.70	1	96.8	4.1	1
4SMF64A	4SMF64CA	64.0	71.10	78.60	1	103.0	3.9	1
4SMF70A	4SMF70CA	70.0	77.80	86.00	1	113.0	3.5	1
4SMF75A	4SMF75CA	75.0	83.30	92.10	1	121.0	3.3	1
4SMF78A	4SMF78CA	78.0	86.70	95.80	1	126.0	3.2	1
4SMF85A	4SMF85CA	85.0	94.40	104.00	1	137.0	2.9	1

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FIG.1-PULSE WAVEFORM

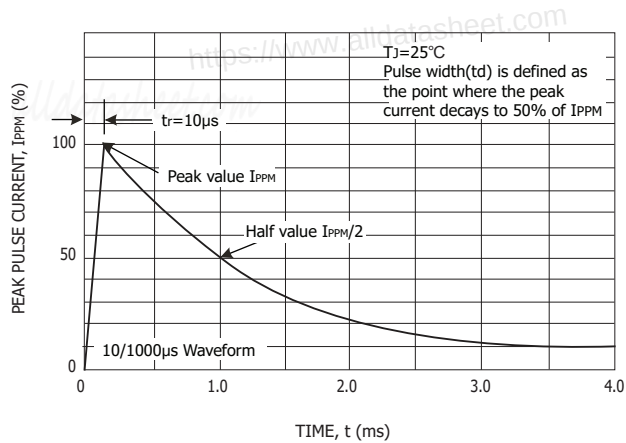


FIG.2-PULSE DERATING CURVE

