

C4SMAFL8.5A Series

8.5V thru 170V, 400W, Uni-Directional Transient Voltage Suppressor in SMAFL package

Central Semiconductor's C4SMAFL8.5A series devices are a low profile alternative to standard SMA Transient Voltage Suppressor devices. The space saving SMAFL fits on existing industry standard SMA mounting pad layouts.

Features:

- Glass passivated junction
- Low inductance
- Flammability classification UL 94V-0

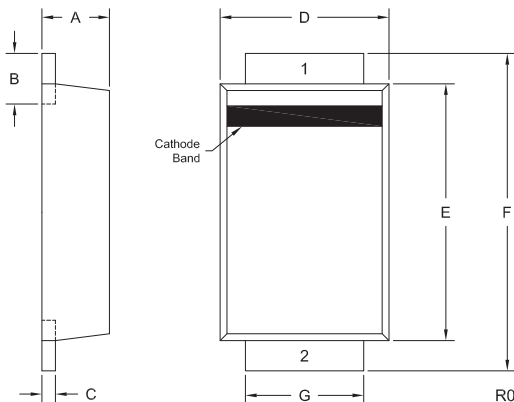
Applications:

- Voltage rail transient protection
- User interface transient protection
- Telephony line protection
- Voltage clamping

Benefits:

- Space saving package
- Low profile alternative to standard SMA package

Mechanical Drawing - SMAFL



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.035	0.044	0.90	1.10
B	0.021	0.038	0.55	0.95
C	0.006	0.010	0.15	0.25
D	0.094	0.103	2.40	2.60
E	0.145	0.154	3.70	3.90
F	0.177	0.193	4.50	4.90
G	0.065	0.073	1.65	1.85

SMAFL (REV: R0)

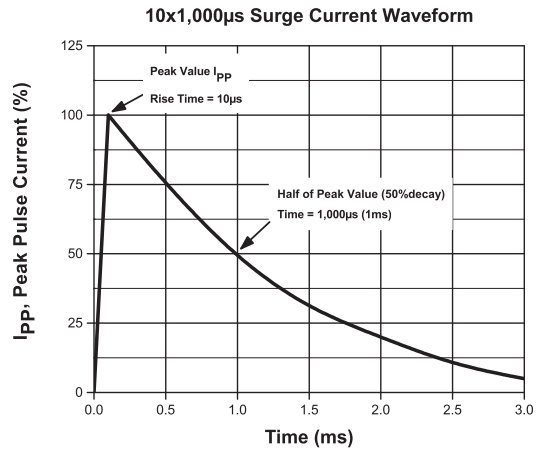
LEAD CODE:

- 1) Cathode
- 2) Anode



SMAFL

Typical Electrical Characteristic



Samples



To request samples visit:

www.centrasemi.com/info/C4SMAFL

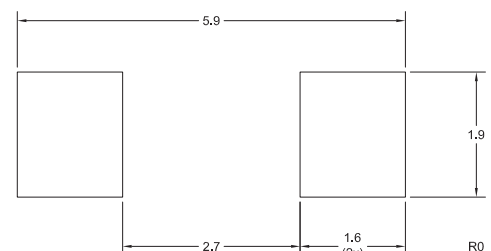
Weblink:

Use QR reader for direct link to product web page,



or use: www.centrasemi.com/info/C4SMAFL

Mounting Pad (Dimensions in mm)



C4SMAFL8.5A Series

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Type No.	Maximum Ratings (T _A = 25°C)				Electrical Characteristics: (T _A = 25°C)							Marking Code
	PPK	IFSM	ΘJA	T _J , T _{stg}	Reverse Stand-off Voltage V _{RWM}	Breakdown Voltage V _{BR} @ I _T		Test Current I _T	Reverse Leakage Current I _R @ V _{RWM}	Maximum Clamping Voltage V _C @ I _{PP}	Peak Pulse Current (Note 1) I _{PP}	
	MAX (W)	MAX (A)	MAX (°C/W)	MAX (°C)	(V)	MIN (V)	MAX (V)	(mA)	MAX (μA)	MAX (V)	MAX (pF)	
C4SMAFL8.5A	400	40	150	-55 to +150	8.5	9.44	10.82	1.0	10	14.4	27.7	C48A
C4SMAFL9.0A	400	40	150	-55 to +150	9.0	10.0	11.5	1.0	5.0	15.4	26.0	C49A
C4SMAFL10A	400	40	150	-55 to +150	10	11.1	12.8	1.0	5.0	17.0	23.5	C410A
C4SMAFL11A	400	40	150	-55 to +150	11	12.2	14.0	1.0	1.0	18.2	22.0	C411A
C4SMAFL12A	400	40	150	-55 to +150	12	13.3	15.3	1.0	1.0	19.9	20.1	C412A
C4SMAFL13A	400	40	150	-55 to +150	13	14.4	16.5	1.0	1.0	21.5	18.6	C413A
C4SMAFL14A	400	40	150	-55 to +150	14	15.6	17.9	1.0	1.0	23.2	17.2	C414A
C4SMAFL15A	400	40	150	-55 to +150	15	16.7	19.2	1.0	1.0	24.4	16.4	C415A
C4SMAFL16A	400	40	150	-55 to +150	16	17.8	20.5	1.0	1.0	26.0	15.3	C416A
C4SMAFL17A	400	40	150	-55 to +150	17	18.9	21.7	1.0	1.0	27.6	14.5	C417A
C4SMAFL18A	400	40	150	-55 to +150	18	20.0	23.3	1.0	1.0	29.2	13.7	C418A
C4SMAFL20A	400	40	150	-55 to +150	20	22.2	25.5	1.0	1.0	32.4	12.3	C420A
C4SMAFL22A	400	40	150	-55 to +150	22	24.4	28.0	1.0	1.0	35.5	11.2	C422A
C4SMAFL24A	400	40	150	-55 to +150	24	26.7	30.7	1.0	1.0	38.9	10.3	C424A
C4SMAFL26A	400	40	150	-55 to +150	26	28.9	33.2	1.0	1.0	42.1	9.5	C426A
C4SMAFL28A	400	40	150	-55 to +150	28	31.1	35.8	1.0	1.0	45.4	8.8	C428A
C4SMAFL30A	400	40	150	-55 to +150	30	33.3	38.3	1.0	1.0	48.4	8.3	C430A
C4SMAFL33A	400	40	150	-55 to +150	33	36.7	42.2	1.0	1.0	53.3	7.5	C433A
C4SMAFL36A	400	40	150	-55 to +150	36	40.0	46.0	1.0	1.0	58.1	6.9	C436A
C4SMAFL40A	400	40	150	-55 to +150	40	44.4	51.1	1.0	1.0	64.5	6.2	C440A
C4SMAFL43A	400	40	150	-55 to +150	43	47.8	54.9	1.0	1.0	69.4	5.7	C443A
C4SMAFL45A	400	40	150	-55 to +150	45	50.0	57.5	1.0	1.0	72.7	5.5	C445A
C4SMAFL48A	400	40	150	-55 to +150	48	53.3	61.3	1.0	1.0	77.4	5.2	C448A
C4SMAFL51A	400	40	150	-55 to +150	51	56.7	65.2	1.0	1.0	82.4	4.9	C451A
C4SMAFL54A	400	40	150	-55 to +150	54	60.0	69.0	1.0	1.0	87.1	4.6	C454A
C4SMAFL58A	400	40	150	-55 to +150	58	64.4	74.1	1.0	1.0	93.6	4.3	C458A
C4SMAFL60A	400	40	150	-55 to +150	60	66.7	76.7	1.0	1.0	96.8	4.1	C460A
C4SMAFL64A	400	40	150	-55 to +150	64	71.1	81.8	1.0	1.0	103	3.9	C464A
C4SMAFL70A	400	40	150	-55 to +150	70	77.8	89.5	1.0	1.0	113	3.5	C470A
C4SMAFL75A	400	40	150	-55 to +150	75	83.3	95.8	1.0	1.0	121	3.3	C475A
C4SMAFL78A	400	40	150	-55 to +150	78	86.7	99.7	1.0	1.0	126	3.2	C478A
C4SMAFL85A	400	40	150	-55 to +150	85	94.4	108.2	1.0	1.0	137	2.9	C485A
C4SMAFL90A	400	40	150	-55 to +150	90	100	115.5	1.0	1.0	146	2.7	C490A
C4SMAFL100A	400	40	150	-55 to +150	100	111	128	1.0	1.0	162	2.5	C4100A
C4SMAFL110A	400	40	150	-55 to +150	110	122	140.5	1.0	1.0	177	2.3	C4110A
C4SMAFL120A	400	40	150	-55 to +150	120	133	153	1.0	1.0	193	2.0	C4120A
C4SMAFL130A	400	40	150	-55 to +150	130	144	165.5	1.0	1.0	209	1.9	C4130A
C4SMAFL150A	400	40	150	-55 to +150	150	167	192.5	1.0	1.0	243	1.6	C4150A
C4SMAFL160A	400	40	150	-55 to +150	160	178	205	1.0	1.0	259	1.5	C4160A
C4SMAFL170A	400	40	150	-55 to +150	170	189	217.5	1.0	1.0	275	1.4	C4170A

Notes: (1) Non-repetitive 10x1,000μs pulse.

Sample devices available upon request. To order samples visit: www.centrasemi.com/info/C4SMAFL



Innovative Discrete Semiconductors

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