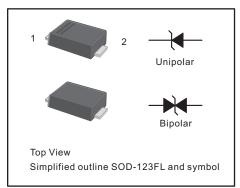


Surface mount transient voltage suppressor power 200 watts

Stand-Off Voltage: 5.0V~440V

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- For surface mounted applications in order to optimize board space.
- ◆ Low profile package
- Glass passivated junction
- ◆ Low inductance
- Plastic package has Underwriters Laboratory
 Flammability

Mechanical Data

◆ Case: SOD-123FL

◆ Terminals: Solderable per MIL-STD-750, Method 2026

◆ Approx. Weight:15mg/0.00048oz

Maximum Ratings and Electrical characteristics
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on TA=25°C (Note 1,2,5, Fig1)	P _{PPM}	200	W
Peak Forward Surge Current (Note 3)	I _{FSM} (UNI)	20	А
Peak Pulse Current on 10/1000 us waveform (Note 1) Fig 2	I _{PPM}	see Table 1	А
Steady State Power Dissipation (Note 4)	P _{M(AV)}	1	W
Operating Junction and Storage Range	$T_{J_{i}}T_{STG}$	-55 to +150	°C
Typical Thermal Resistance	$R_{ hetaJA}$	180	°C/W

NOTES

- 1. Non-repetitive current pulse per Fig 3 and derated above TA=25°C per Fig 2
- 2. Mounted on 5mm² copper pads to each terminal
- $3.\,8.3 ms\ single\ half\ sine wave, or\ equivalent\ square\ wave\ duty\ cycle=4\ pulses\ per\ minutes\ maximum$
- 4. lead temperature at T_L =75°C
- 5. Peak pulse powe. waveform is tp=10/1000us
- 6. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), Which Should be equal to or greater than the DC or continuous peak operating voltage level



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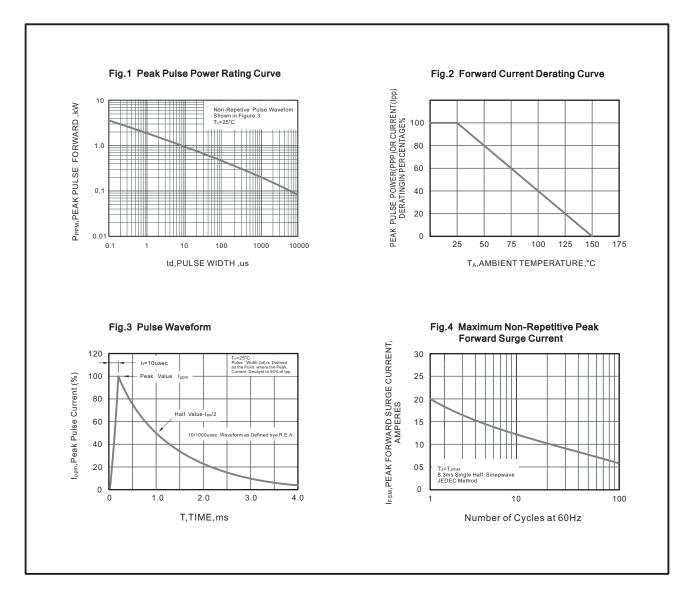
Characteristics at Ta = 25°C

					Brea	kdown	Test	Reverse	Max. Clamp	Peak Pulse
Туре		Marking		V _{RMW}		tage	Current	Leakage	Voltage	Current
					V _{BR} @ I _T		l _T	I _R @ V _{RWM}	V _C @ I _{PP}	I _{PP}
Uni	Bi	l le!	Bi	V	Min V	Max V	A		.,	
Uni		Uni		V 5		7	mA	μΑ	V	A 24.7
SMF5.0A	SMF5.0CA	AE	CAE	6	6.4		10	100	9.2	21.7
SMF6.0A	SMF6.0CA	AG AK	CAG	6.5	7.22	7.37	10	75	10.3	19.4 17.9
SMF6.5A	SMF6.5CA	AM	CAN	7	7.78	8.6	10	50	12	16.7
SMF7.0A	SMF7.0CA	AP	CAM	7.5	8.33	9.21	10	50	12.9	15.5
SMF7.5A SMF8.0A	SMF7.5CA	AR	CAP	8	8.89	9.83	1	25	13.6	14.7
SMF8.5A	SMF8.0CA SMF8.5CA	AT	CAT	8.5	9.44	10.4	1	10	14.4	13.9
SMF9.0A	SMF9.0CA	AV	CAV	9	10	11.1	1	5	15.4	13.9
SMF9.0A SMFI0A		AX	CAV	10	11.1	12.3	1	2.5	17	11.8
	SMFIOCA	AZ	CAZ	11	12.2	13.5	1	2.5	18.2	11.0
SMF11A	SMF11CA	BE	CBE	12	13.3	14.7	1	2.5	19.9	10.1
SMF12A	SMF12CA	BG	CBG	13	14.4	15.9	1	1	21.5	9.3
SMF13A SMF14A	SMF13CA	BK	СВК	14	15.6	17.2	1	1	23.2	8.6
	SMF14CA	BM BM	CBK	14	16.7	17.2	1	1	23.2	8.6
SMF15A	SMF15CA	BP BM	СВМ					1		
SMF16A	SMF16CA			16 17	17.8	19.7	1	1	26	7.7
SMF17A	SMF17CA	BR BT	CBT	17	18.9	20.9	1	1	27.6	6.8
SMF18A	SMF18CA	BV	CBV	20	22.2	24.5	1	1	32.4	6.8
SMF20A	SMF20CA	BX	CBV	20	22.2	24.5	1	1	35.5	5.6
SMF22A	SMF22CA	BZ	CBZ	24	24.4	29.5	1	1	38.9	
SMF24A	SMF24CA			26	28.9		1	1	42.1	5.1
SMF26A	SMF26CA	CE	CCE	28		31.9	1	1		4.8
SMF28A	SMF28CA	CG	CCG		31.1	34.4		1	45.4	4.4
SMF30A	SMF30CA	CK	CCK	30	33.3	36.8	1	1	48.4	4.1
SMF33A	SMF33CA	CM CP	ССМ	33 36	36.7	40.6	1	1	53.3	3.8
SMF36A	SMF36CA		CCP		40	44.2			58.1	3.4
SMF40A	SMF40CA	CR	CCR	40	44.4	49.1	1	1	64.5	3.1
SMF43A	SMF43CA	CT	CCT	43	47.8	52.8	1	1	69.4	2.9
SMF45A	SMF45CA	CV	ccv	45	50	55.3	1	1	72.7	2.8
SMF48A	SMF48CA	CX	CCX	48	53.3	58.9	1	1	77.4 82.4	2.6
SMF51A	SMF51CA	CZ	CCZ	51	56.7	62.7		1		2.4
SMF54A	SMF54CA	DE		54	60	66.3	1	1	87.1	2.3
SMF58A	SMF58CA	DG	CDG	58	64.4	71.2	1	1	93.6	2.1
SMF60A	SMF60CA	DK	CDK	60	66.7	73.7	1	1	96.8	1.8
SMF64A	SMF64CA	DM DP	CDM	70	71.1	78.6	1	1	103 113	1.7
SMF70A	SMF70CA	DR	CDP		77.8	86	1	1	113	
SMF75A	SMF75CA	DT	CDT	75 78	83.3 86.7	92.1 95.8	1	1	121	1.4
SMF78A SMF85A	SMF78CA	DV	CDV	85	94.4	104	1	1	137	1.4
SMF85A SMF90A	SMF85CA	DX	CDV	90	100	111	1	1	146	1.3
	SMF90CA	DZ	CDZ	100	111	123	1	1	162	1.1
SMF100A	SMF110CA	EE	CEE		122		1	1	177	1.1
SMF110A	SMF110CA	EG	CEG	110	133	135	1	1	177	0.9
SMF120A	SMF120CA	EK	CEK	130	133	159	1	1	209	0.9
SMF130A	SMF130CA	EM	CEM	150	167	185	1	1	209	0.8
SMF150A	SMF150CA	EP EM	CEP	160	178	197	1	1	243	0.7
SMF160A	SMF160CA	ER	CER	170	189	209	1	1	259	0.7
SMF170A	SMF170CA	ET	CET	180	201	209	1	1	275	0.6
SMF180A	SMF180CA	EX	CEX	200	224	247	1		324	0.5
SMF200A	SMF200CA							1		
SMF220A	SMF220CA	E22	CE22	220	246	272	1	1	356	0.5
SMF250A	SMF250CA	E25	CE25	250	279	309	1	1	405	0.5
SMF300A	SMF300CA	E30	CE30	300	335	371	1	1	486	0.45
SMF350A	SMF350CA	E35	CE35	350	391	432	1	1	567	0.4
SMF400A	SMF400CA	E40 E44	CE40 CE44	400	447	494 543	1	1	648 713	0.35



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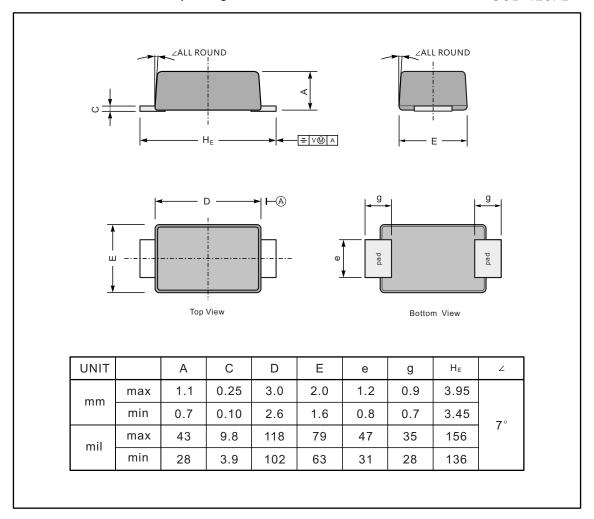
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size

