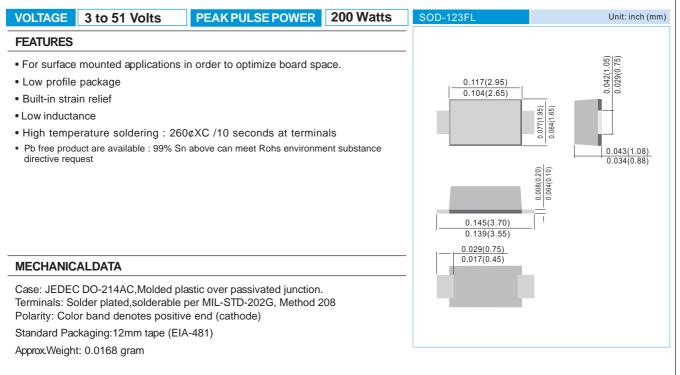




SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR



DEVICES FOR BIPOLAR APPLICATIONS

Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on $T_A=25^{O}C$ (Notes 1,2,5, Fig1)	P _{PPM}	200	Watts
Peak Forward Surge Cunentper (Notes 3)	I _{FSM}	20	A
Peak Pulse Currenton 10/1000s waveform (Notes 1, Fig2)	I _{PPM}	see Table 1	А
Steady State Power Dissipation (Notes 4)	P _{M(AV)}	1.0	Watts
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to + 150	°C
Thermal resistance	R _{OJA}	180	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above TA = 25 $^{\circ}$ C per Fig. 2.

2. Mounted on 5.0mm² copper pads to each terminal.

3. 8.3ms single half sine-wave, or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

4. Lead temperature at $75^{\circ}C = TL$.

5. Peak pulse power waveform is 10/1000uS.



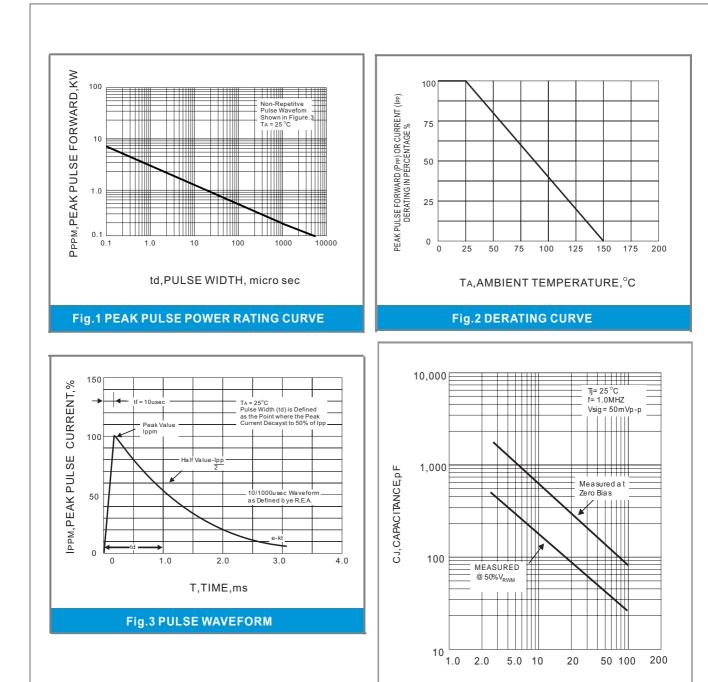
SMF5.0A SERIES

Part Number	V _{RWM}	V _{BR}	@ I _T	I _T / mA	I _R @V _{RWM} _μ Α	Max. Clamp Voltage V _C @I _{PP}	Peak Pulse Current I _{PP}	Marking Code	Package
	V	Min. V	Max. V			V	Α		
00 Watt Transient	Voltage S	Suppress	or						
SMF3.0A	3	4.1	4.5	10	400	8	25	HD	SOD-123FL
SMF5.0A	5	6.4	7	10	400	9.2	21.7	HE	SOD-123FL
SMF6.0A	6	6.67	7.37	10	400	10.3	19.4	HG	SOD-123FL
SMF6.5A	6.5	7.22	7.98	10	250	11.2	17.9	НК	SOD-123FL
SMF7.0A	7	7.78	8.6	10	100	12	16.7	HM	SOD-123FL
SMF7.5A	7.5	8.33	9.21	1	50	12.9	15.5	HP	SOD-123FL
SMF8.0A	8	8.89	9.83	1	25	13.6	14.7	HR	SOD-123FI
SMF8.5A	8.5	9.44	10.4	1	10	14.4	13.9	HT	SOD-123FI
SMF9.0A	9	10	11.1	1	5	15.4	13	HV	SOD-123FI
SMF10A	10	11.1	12.3	1	2.5	17	11.8	HX	SOD-123F
SMF11A	11	12.2	13.5	1	2.5	18.2	11	HZ	SOD-123F
SMF12A	12	13.3	14.7	1	2.5	19.9	10.1	IE	SOD-123F
SMF13A	13	14.4	15.9	1	1	21.5	9.3	IG	SOD-123F
SMF14A	14	15.6	17.2	1	1	23.2	8.6	IK	SOD-123F
SMF15A	15	16.7	18.5	1	1	24.4	8.2	IM	SOD-123F
SMF16A	16	17.8	19.7	1	1	26	7.7	IP	SOD-123F
SMF17A	17	18.9	20.9	1	1	27.6	7.2	IR	SOD-123F
SMF18A	18	20	22.1	1	1	29.2	6.8	IT	SOD-123F
SMF20A	20	22.2	24.5	1	1	32.4	6.2	IV	SOD-123F
SMF22A	22	24.4	26.9	1	1	35.5	5.6	IX	SOD-123F
SMF24A	24	26.7	29.5	1	1	38.9	5.1	IZ	SOD-123F
SMF26A	26	28.9	31.9	1	1	42.1	4.8	JE	SOD-123F
SMF28A	28	31.1	34.4	1	1	45.4	4.4	JG	SOD-123F
SMF30A	30	33.3	36.8	1	1	48.4	4.1	JK	SOD-123F
SMF33A	33	36.7	40.6	1	1	53.3	3.8	JM	SOD-123F
SMF36A	36	40	44.2	1	1	58.1	3.4	JP	SOD-123F
SMF40A	40	44.4	49.1	1	1	64.5	3.1	JR	SOD-123F
SMF43A	43	47.8	52.8	1	1	69.4	2.9	JT	SOD-123F
SMF45A	45	50	55.3	1	1	72.7	2.8	JV	SOD-123F
SMF48A SMF51A	48 51	53.3 56.7	58.9 62.7	1	1	77.4 82.4	2.6 2.4	JX JZ	SOD-123F SOD-123F



ΡΛΝ

SEMI CONDUCTOR



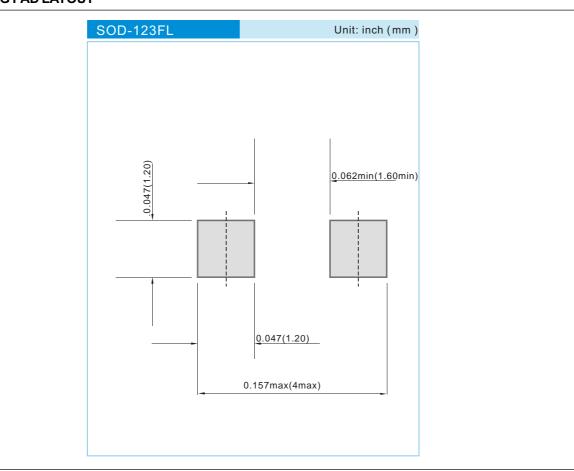
V(RWM), REVERSE STAND-OFF VOLTAGE, VOLTS

Fig.4 TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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