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PACKAGE DATA								
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS		
SMF26A-M		PE	15 mg		JL 94 V-0 MSL level 1 (according J-STD-020) 260 °C/10 s a	000 00 // 0 a at taurain la		
SMF28A-M		PG						
SMF30A-M		PK						
SMF33A-M		PM						
SMF36A-M	SMF	PP		111 041/ 0				
SMF40A-M	SIVIF	PR		OL 94 V-0		260 C/10 s at terminals		
SMF43A-M		PT						
SMF45A-M		PV						
SMF48A-M		PX						
SMF51A-M		PZ						

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT			
Peak pulse current	$t_p = 10/1000 \mu s$ waveform acc. IEC 61000-4-5	I _{PPM}	see "Electrical Characteristics"	Α			
Peak pulse power	t _p = 8/20 µs waveform acc. IEC 61000-4-5		1000	W			
reak puise power	t _p = 10/1000 μs waveform acc. IEC 61000-4-5	P _{PP}	200	W			
Peak forward surge current	8.3 ms single half sine-wave	I _{FSM}	20	А			
ECD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses		± 30	kV			
ESD immunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV			
Thermal resistance	Mounted on epoxy glass PCB with 3 mm x 3 mm, Cu pads (≥ 40 µm thick)	R _{thJA}	180	K/W			
Forward clamping voltage	I _F = 12 A	V _F	3.5	V			
Operating temperature	Junction temperature	T_J	- 55 to + 150	°C			
Storage temperature		T _{STG}	- 55 to + 150	°C			

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)								
PART NUMBER	REVERSE BREAKDOWN VOLTAGE at I_T , $t_p \le 5$ ms	TEST CURRENT	REVERSE WORKING VOLTAGE	REVERSE CURRENT at V _{RWM}	MAXIMUM PEAK PULSE CURRENT t _p = 10/1000 μs	REVERSE CLAMPING VOLTAGE at I _{PPM}	CAPACITANCE at V _R = 0 V, f = 1 MHz	PROTECTION PATHS
	V _{BR} MIN. (V)	I _T (mA)	V _{RWM} (V)	I _R (μΑ)	I _{PPM} (A)	V _C (V)	C _D TYP. (pF)	N _{channel}
SMF5V0A-M	6.40	10	5	400	21.7	9.2	1030	1
SMF6V0A-M	6.67	10	6	400	19.4	10.3	1010	1
SMF6V5A-M	7.22	10	6.5	250	17.9	11.2	850	1
SMF7V0A-M	7.78	10	7	100	16.7	12	750	1
SMF7V5A-M	8.33	1	7.5	50	15.5	12.9	730	1
SMF8V0A-M	8.89	1	8	25	14.7	13.6	670	1
SMF8V5A-M	9.44	1	8.5	10	13.9	14.4	660	1
SMF9V0A-M	10	1	9	5	13.5	15.4	620	1
SMF10A-M	11.1	1	10	2.5	11.8	17	570	1
SMF11A-M	12.2	1	11	2.5	11	18.2	460	1
SMF12A-M	13.3	1	12	2.5	10.1	19.9	440	1
SMF13A-M	14.4	1	13	1	9.3	21.5	420	1
SMF14A-M	15.6	1	14	1	8.6	23.2	370	1
SMF15A-M	16.7	1	15	1	8.2	24.4	350	1
SMF16A-M	17.8	1	16	1	7.7	26	340	1
SMF17A-M	18.9	1	17	1	7.2	27.6	310	1
SMF18A-M	20	1	18	1	5.8	29.2	305	1

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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)								
PART NUMBER	REVERSE BREAKDOWN VOLTAGE at I _T , t _p ≤ 5 ms	TEST CURRENT	REVERSE WORKING VOLTAGE	REVERSE CURRENT at V _{RWM}	MAXIMUM PEAK PULSE CURRENT t _p = 10/1000 μs	REVERSE CLAMPING VOLTAGE at I _{PPM}	CAPACITANCE at V _R = 0 V, f = 1 MHz	PROTECTION PATHS
	V _{BR} MIN. (V)	I _T (mA)	V _{RWM} (V)	I _R (μΑ)	I _{PPM} (A)	V _C (V)	C _D TYP. (pF)	N _{channel}
SMF20A-M	22.2	1	20	1	6.2	32.4	207	1
SMF22A-M	24.4	1	22	1	5.6	35.5	265	1
SMF24A-M	26.7	1	24	1	5.1	38.9	240	1
SMF26A-M	28.9	1	26	1	4.8	42.1	225	1
SMF28A-M	31.1	1	28	1	4.4	45.4	210	1
SMF30A-M	33.3	1	30	1	4.1	48.4	205	1
SMF33A-M	36.7	1	33	1	3.8	53.3	190	1
SMF36A-M	40	1	36	1	3.4	58.1	180	1
SMF40A-M	44.4	1	40	1	3.1	64.5	165	1
SMF43A-M	47.8	1	43	1	2.9	69.4	160	1
SMF45A-M	50	1	45	1	2.8	72.7	155	1
SMF48A-M	53.3	1	48	1	2.6	77.4	150	1
SMF51A-M	56.7	1	51	1	2.4	82.4	145	1

TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

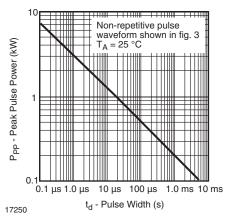


Fig. 1 - Peak Pulse Power Rating

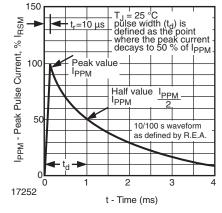


Fig. 3 - Pulse Waveform

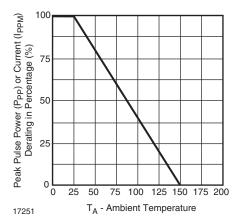
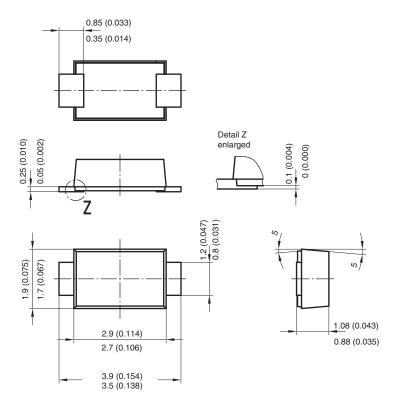


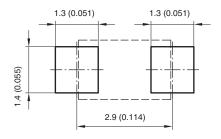
Fig. 2 - Pulse Derating Curve

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PACKAGE DIMENSIONS in millimeters (inches): SMF



Foot print recommendation:



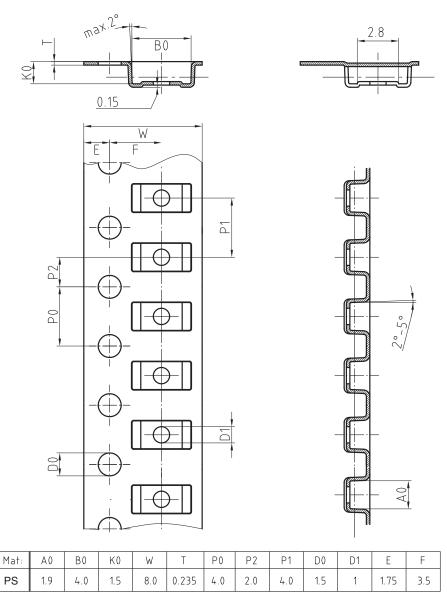
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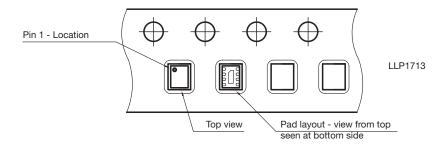
BLISTERTAPE DIMENSIONS in millimeters (inches)

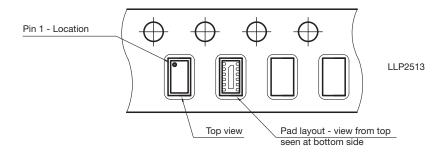


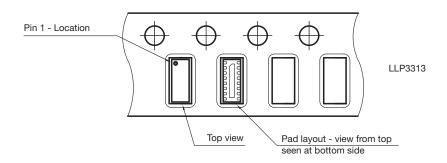
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