

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Low Leakage
- Glass passivated junction
- Excellent clamping capability
- Uni-directional polarity
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Polarity: Heatsink is anode
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Meet ISO7637-2 5a surge specification
- AEC-Q101 Qualified
- UL Recognized File # E480232

Maximum Rating:

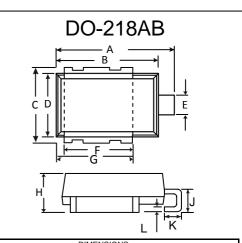
- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C

Peak Pulse Current with a 10/1000us waveform	I _{PPM}	See Table 1	Note 2
Peak Power Dissipation with a 10/1000us waveform	P _{PPM}	6600W	Note 2
Peak Power Dissipation with a 10/10000us waveform	P _{PPM}	5200W	
Peak Forward Surge Current	I _{FSM}	700A	
Power Dissipation On Infinite Heatsink At T∟=25°C	P _D	8.0W	

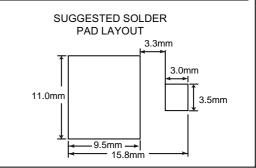
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7. 2. Non-repetitive current pulse, per Fig.2 and derated above T_A=25^oC per Fig.1

SM8S10A THRU SM8S43A

6600 Watt Transient Voltage Suppressors 10 to 43 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.590	0.630	15.00	16.00		
В	0.524	0.539	13.30	13.70		
С	0.374	0.413	9.50	10.50		
D	0.323	0.339	8.20	8.60		
E	0.091	0.114	2.30	2.90		
F	0.343	0.366	8.70	9.30		
G	0.382	0.406	9.70	10.30		
Н	0.189	0.205	4.80	5.20		
J	0.098	0.138	2.50	3.50		
К	0.067	0.106	1.70	2.70		
L	0.020	0.028	0.50	0.70		



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Part Number (Uni)	Breakdown Voltage V _{BR} @I _T		Maximum Reverse Leakage I _R	Maximum I _R @V _{RWM} T _J =175	Working Peak Reverse Voltage V _{RWM}	Maximum Reverse Surge Current I _{PP}	Maximum Clamping Voltage	
	Min (V)	Max (V)	I _T (mA)	@V _{RWM} (μΑ)	(μΑ)	(V)	(A) ⁽¹⁾	$V_{C}@I_{PP}(V)$
SM8S10A	11.1	12.3	5.0	15	250	10	388	17.0
SM8S11A	12.2	13.5	5.0	10	150	11	363	18.2
SM8S12A	13.3	14.7	5.0	10	150	12	332	19.9
SM8S13A	14.4	15.9	5.0	10	150	13	307	21.5
SM8S14A	15.6	17.2	5.0	10	150	14	284	23.2
SM8S15A	16.7	18.5	5.0	10	150	15	270	24.4
SM8S16A	17.8	19.7	5.0	10	150	16	254	26.0
SM8S17A	18.9	20.9	5.0	10	150	17	239	27.6
SM8S18A	20.0	22.1	5.0	10	150	18	226	29.2
SM8S20A	22.2	24.5	5.0	10	150	20	204	32.4
SM8S22A	24.4	26.9	5.0	10	150	22	186	35.5
SM8S24A	26.7	29.5	5.0	10	150	24	170	38.9
SM8S26A	28.9	31.9	5.0	10	150	26	157	42.1
SM8S28A	31.1	34.4	5.0	10	150	28	145	45.4
SM8S30A	33.3	36.8	5.0	10	150	30	136	48.4
SM8S33A	36.7	40.6	5.0	10	150	33	124	53.3
SM8S36A	40.0	44.2	5.0	10	150	36	114	58.1
SM8S40A	44.4	49.1	5.0	10	150	40	102	64.5
SM8S43A	47.8	52.8	5.0	10	150	43	95.1	69.4

Electrical Characteristics(T_A =25°C unless otherwise noted)

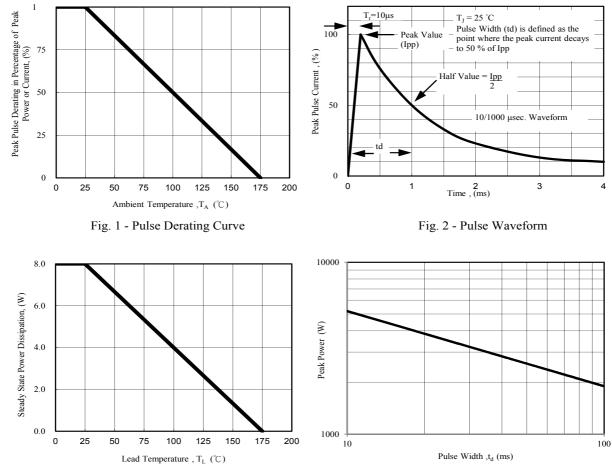
NOTE:

1.Surge current waveform is defined at 10/1000uS waveform

2.For all types maximum VF = 1.9 V at IF = 100 A measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum

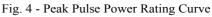






Ratings and Characteristics Curves (T_A=25°C unless otherwise noted)

Fig. 3 - Steady State Power Derating Curve







Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 750pcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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