



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
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SM8S14A THRU SM8S43A

6600 Watt Transient Voltage Suppressors 14 to 43 Volts

Features

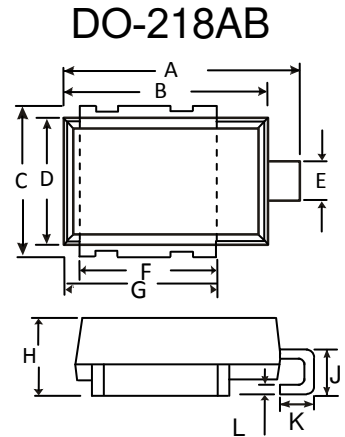
- Low Leakage
- Glass passivated junction
- Excellent clamping capability
- Uni-directional polarity
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability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

Maximum Rating:

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

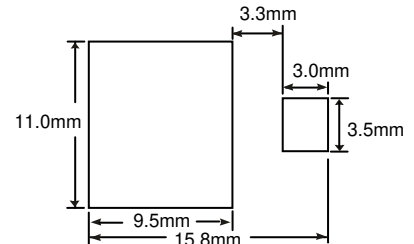
Peak Pulse Current with a 10/1000us waveform	I_{PPM}	See Table 1	Note 2
Peak Power Dissipation with a 10/1000us waveform	P_{PPM}	6600W	Note 2
Peak Power Dissipation with a 10/10000us waveform	P_{PPM}	5200W	Note 2
Peak Forward Surge Current	I_{FSM}	700A	Note:3
Power Dissipation On Infinite Heatsink At $T_L=25^\circ\text{C}$	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 $T_A=25^\circ\text{C}$ per Fig.1
 3. Peak forward surge current 8.3 ms single half sine



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.590	0.630	15.00	16.00	
B	0.524	0.539	13.30	13.70	
C	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	
H	0.189	0.205	4.80	5.20	
J	0.098	0.138	2.50	3.50	
K	0.067	0.106	1.70	2.70	
L	0.020	0.028	0.50	0.70	

SUGGESTED SOLDER PAD LAYOUT



SM8S14A THRU SM8S43A

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Part Number	Breakdown Voltage V_{BR} @ I_T			Maximum Reverse Leakage I_R @ V_{RWM} (μA)	Maximum I_R @ V_{RWM} $T_J=175$ (μA)	Working Peak Reverse Voltage V_{RWM} (V)	Maximum Reverse Surge Current I_{PP} (A) ⁽¹⁾	Maximum Clamping Voltage V_C @ I_{PP} (V)
	Min (V)	Max (V)	I_T (mA)					
SM8S14A	15.60	17.20	5	10	150	14	284.0	23.2
SM8S15A	16.70	18.50	5	10	150	15	270.0	24.4
SM8S16A	17.80	19.70	5	10	150	16	254.0	26.0
SM8S17A	18.90	20.90	5	10	150	17	239.0	27.6
SM8S18A	20.00	22.10	5	10	150	18	226.0	29.2
SM8S20A	22.20	24.50	5	10	150	20	204.0	32.4
SM8S22A	24.40	26.90	5	10	150	22	186.0	35.5
SM8S24A	26.70	29.50	5	10	150	24	170.0	38.9
SM8S26A	28.90	31.90	5	10	150	26	157.0	42.1
SM8S28A	31.10	34.40	5	10	150	28	145.0	45.4
SM8S30A	33.30	36.80	5	10	150	30	136.0	48.4
SM8S33A	36.70	40.60	5	10	150	33	124.0	53.3
SM8S36A	40.00	44.20	5	10	150	36	114.0	58.1
SM8S40A	44.40	49.10	5	10	150	40	102.0	64.5
SM8S43A	47.80	52.80	5	10	150	43	95.1	69.4

NOTE 1: Surge current waveform is defined at 10/1000 μs waveform

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

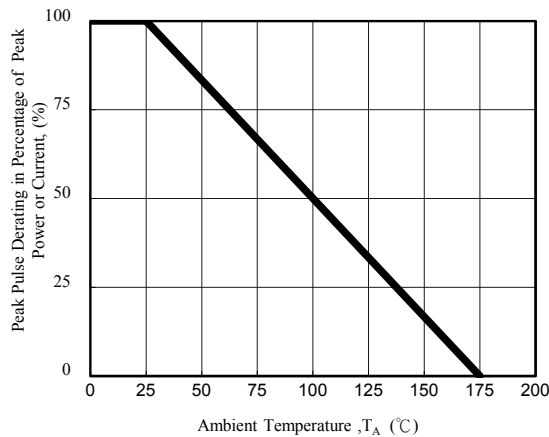


Fig. 1 - Pulse Derating Curve

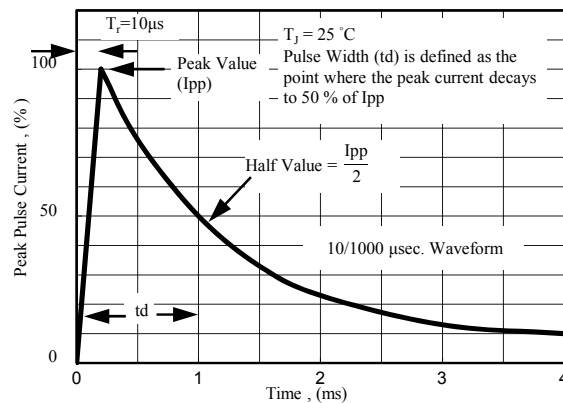


Fig. 2 - Pulse Waveform

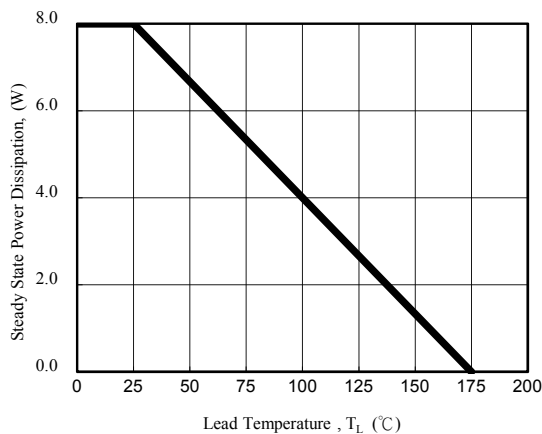


Fig. 3 - Steady State Power Derating Curve

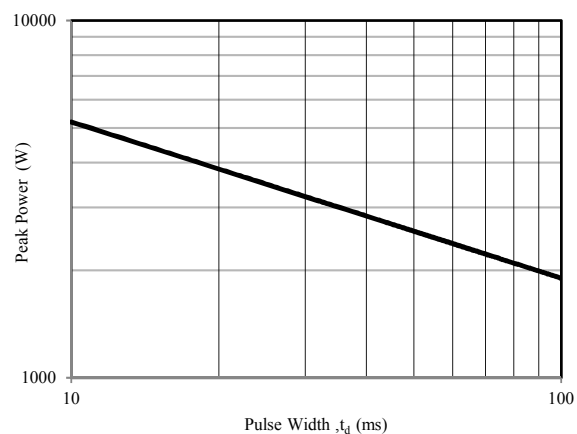


Fig. 4 - Peak Pulse Power Rating Curve



Micro Commercial Components

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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