

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



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SMA6F5.0A THRU SMA6F13A

Features

- For surface mounted applications in order to optimize board space
- Glass passivated junction
- Excellent clamping capability
- High Temp Soldering: 260°C / 40 Seconds At Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Polarity: Indicated by cathode band except bi-directional types

Maximum Rating:

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

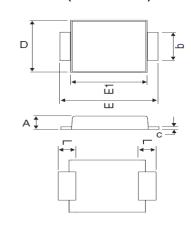
Peak Pulse Current on 10/1000µs Waveform	I _{PPM}	See Table 1	Note 2
Peak Pulse Power Dissipation	P _{PPM}	Min 600 W	Note 2, 4
Peak Forward Surge Current	I _{FSM}	40A	Note:3

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

- 2. Non-repetitive current pulse, per Fig.4 and derated above $T_A=25^{\circ}\text{C}$ per Fig.1.
- 3. Lead temperature at $T_L = 75^{\circ}$ C
- 4. Peak pulse power waveform is 10/1000µs.

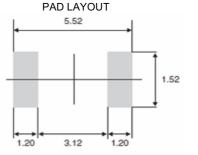
600 Watt Transient Voltage Suppressors 5.0 to 13 Volts

DO-221AC (SMA-FL)



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.035	.059	0.90	1.50	
b	.049	.065	1.25	1.65	
С	.006	.016	0.15	0.40	
D	.089	.116	2.25	2.95	
E	.188	.220	4.80	5.60	
E1	.156	.181	3.95	4.60	
L	.030	.059	0.75	1.50	

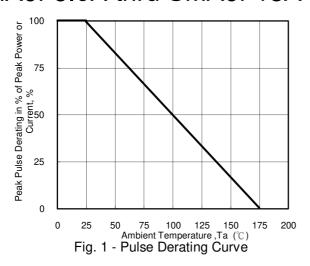
SUGGESTED SOLDER

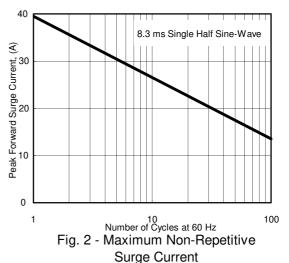




SMA6F5.0A thru SMA6F13A

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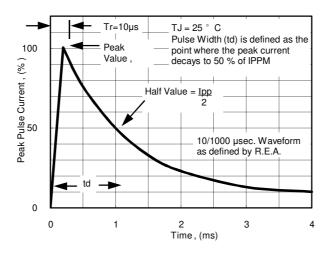


Fig. 3 - Pulse Waveform





SMA6F PART NUMBER	DEVICE MARKING CODE	REVERSE STAND- OFF VOLTAGE V _{RWM} (V)	REVERSE VOL STAND- OFF V _{RR} ((DOWN ΓAGE /) @I _T	CURRENT	MAXIMUM CLAMPING VOLTAGE @Ipp Vc(V)	CURRENT	REVERSE LEAKAGE @ V _{RWM} I _R (μ A)
TATTINOMBET			MIN	MAX	I _⊤ (mA)				
SMA6F5.0A	SUA	5.0	6.40	7.07	10	9.2	68.0	800	
SMA6F12A	SUJ	12	13.30	14.70	1	18.5	31.0	5.0	
SMA6F13A	SUG	13	14.40	15.90	1	20.4	29.0	5.0	



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Ordering Information:

Device	Packing
Part Number-TP	Tape &Reel 5 Kpcs/Reel

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

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