

Micro Commercial Components

COMPLIANT

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

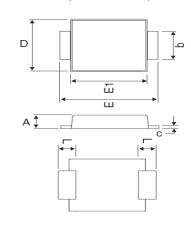
Peak Pulse Current on 10/1000µs Waveform	I _{PPM}	See Table 1	Note 2
Peak Pulse Power Dissipation	P _{PPM}	Min 600 W	Note 2, 4

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.

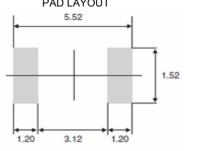
600 Watt Transient Voltage Suppressors 5.0 to 13 Volts

DO-221AC (SMA-FL)



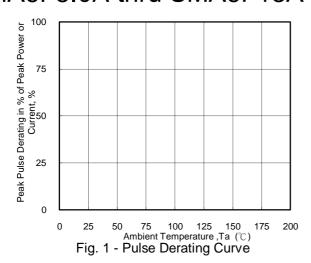
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.035	.059	0.90	1.50	
b	.049	.065	1.25	1.65	
С	.006	.016	0.15	0.40	
D	.089	.116	2.25	2.95	
E	.188	.220	4.80	5.60	
E1	.156	.181	3.95	4.60	
L	.030	.059	0.75	1.50	

SUGGESTED SOLDER PAD LAYOUT





SMA6F5.0A thru SMA6F13A



Tr=10µs TJ = 25 ° C Pulse Width (td) is defined as the 100 Peak point where the peak current decays to 50 % of IPPM Value, Peak Pulse Current , (%) Half Value = \underline{Ipp} 10/1000 µsec. Waveform as defined by R.E.A. td 0 0 1 3 Time, (ms)

Fig. 2 - Pulse Waveform





SMA6F PART NUMBER	DEVICE MARKING CODE	REVERSE STAND- OFF VOLTAGE	VOLT	TDOWN TAGE ') @I _T	CURRENT	MAXIMUM CLAMPING VOLTAGE	PEAK PULSE CURRENT	REVERSE LEAKAGE @ V _{RWM} I _R
TAINT NOWBER		V _{RWM} (V)	MIN	MAX	I _T (mA)	@Ipp Vc(V)		(μA)
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:10Kpcs/Reel

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

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