



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"

600 Watt
Transient Voltage
Suppressors
5.0 to 13 Volts

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
Moisure Sensivity 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

Table with 4 columns: Parameter, I\_PPM, See Table 1, Note 2. Rows include Peak Pulse Current on 10/1000µs Waveform and Peak Pulse Power Dissipation.

- Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
2. Non-repetitive current pulse, per Fig.4 and derated above TA=25°C per Fig.1.
3. Lead temperature at TL = 75°C
4. Peak pulse power waveform is 10/1000µs.

DO-221AC
(SMA-FL)

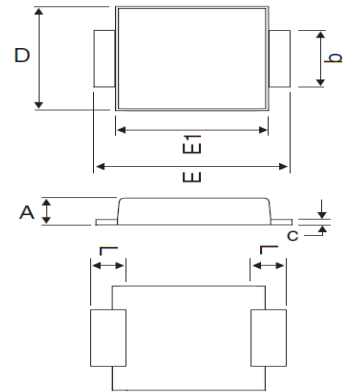
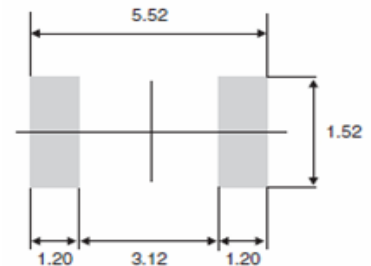


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A, b, C, D, E, E1, L.

SUGGESTED SOLDER
PAD LAYOUT



# SMA6F5.0A thru SMA6F13A

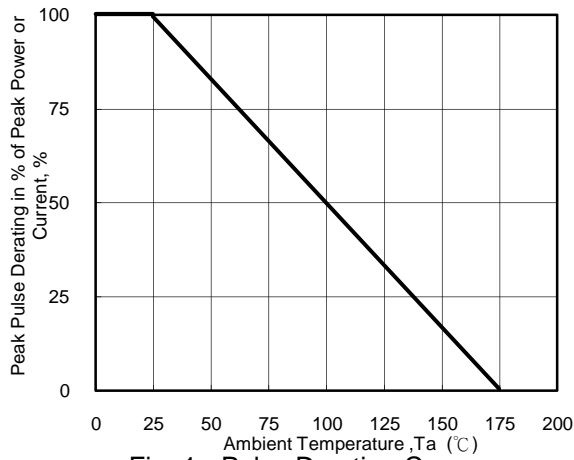


Fig. 1 - Pulse Derating Curve

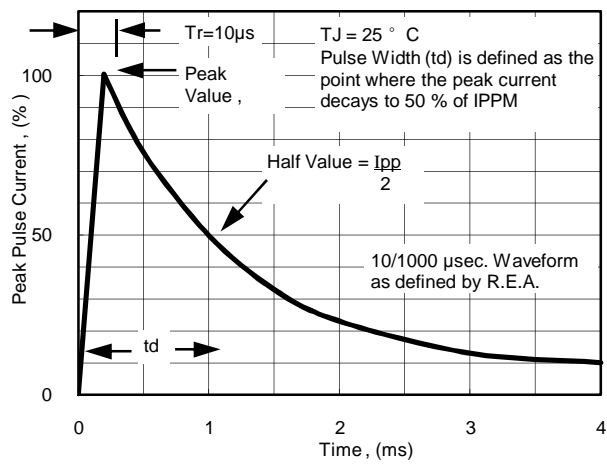


Fig. 2 - Pulse Waveform

# SMA6F5.0A thru SMA6F13A

SMA6F PART NUMBER	DEVICE MARKING CODE	REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V) @ I_T$		TEST CURRENT $I_T (mA)$	MAXIMUM CLAMPING VOLTAGE $@ I_{pp} V_c(V)$	PEAK PULSE CURRENT $I_{pp} (A)$	REVERSE LEAKAGE $@ V_{RWM} I_R$ ( $\mu A$ )
			MIN	MAX				
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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