



Micro Commercial Components



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

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

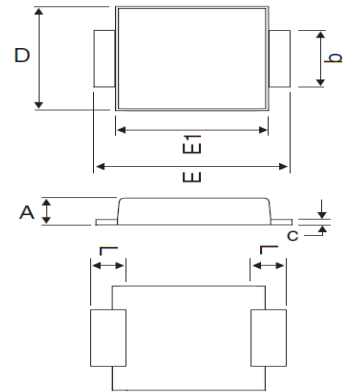
Maximum Rating:

- 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.

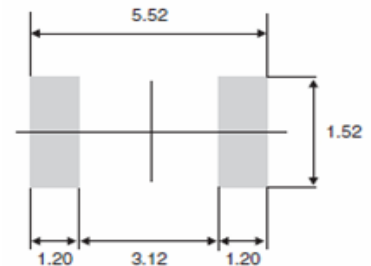
- Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
2. Non-repetitive current pulse, per Fig.4 and derated above TA=25°C per Fig.1.
3. Lead temperature at TL = 75°C
4. Peak pulse power waveform is 10/1000µs.

DO-221AC
(SMA-FL)



DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A, b, C, D, E, E1, L.

SUGGESTED SOLDER
PAD LAYOUT



SMA6F5.0A thru SMA6F13A

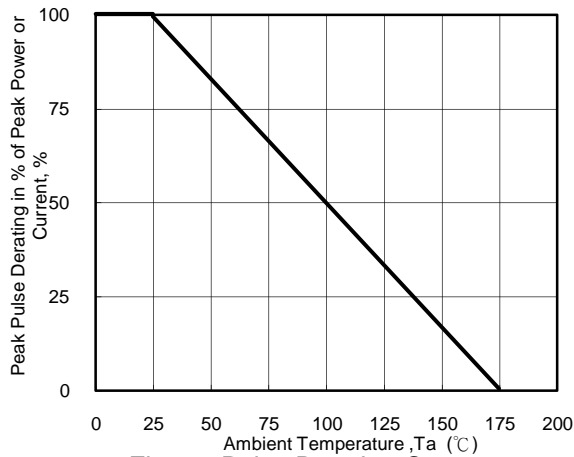


Fig. 1 - Pulse Derating Curve

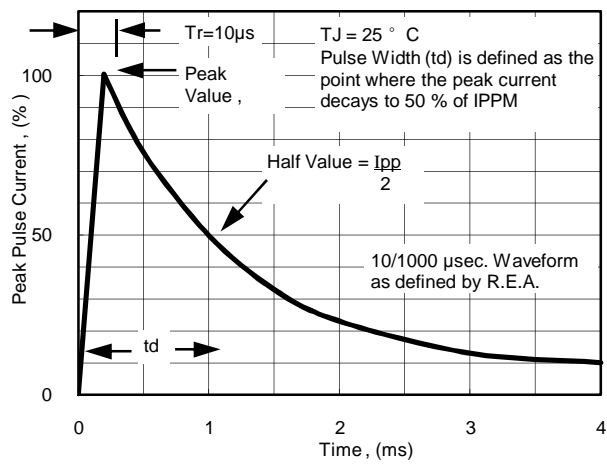


Fig. 2 - Pulse Waveform

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 $@ V_{RWM} I_R$ (μA) |
|----------------------|------------------------|--|---|-------|-------------------------------|---|--|--|
| | | | 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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