

Micro Commercial Components



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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:

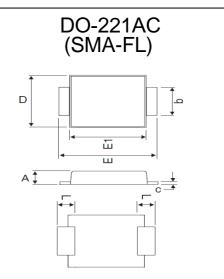
- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C

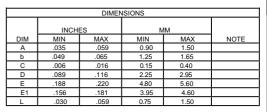
Peak Pulse Current on 10/1000µs Waveform	I _{PPM}	See Table 1	Note 2	
Peak Pulse Power Dissipation	P _{PPM}	Min 600 W	Note 2, 4	

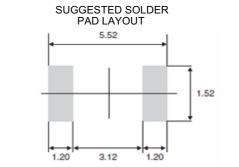
- Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
 - 2. Non-repetitive current pulse, per Fig.4 and derated above $T_{A}{=}25^{\circ}\!\mathbb{C}$ per Fig.1.
 - 3. Lead temperature at $T_L = 75^{\circ}C$
 - 4. Peak pulse power waveform is 10/1000µs.



600 Watt Transient Voltage Suppressors 5.0 to 13 Volts



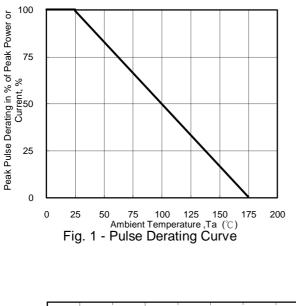




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SMA6F5.0A thru SMA6F13A



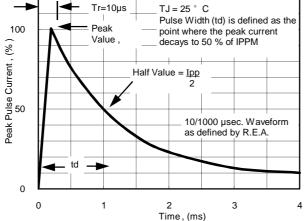


Fig. 2 - Pulse Waveform

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SMA6F5.0A thru SMA6F13A



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SMA6F PART NUMBER	DEVICE MARKING CODE	REVERSE STAND- OFF VOLTAGE	STAND- OFF V _{RP} (V) @I _T		CURRENT VO	MAXIMUM CLAMPING VOLTAGE	PEAK PULSE CURRENT	REVERSE LEAKAGE @ V _{RWM} I _R
TARTNOMBER		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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