

Micro Commercial Components



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Features

- For Surface Mount Applications
- Unidirectional And Bidirectional
- High Surge Capability
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- For Bidirectional Devices Add "C" To The Suffix of The Part Number: i.e.SMA6J9.0CA for 5% Tolerance
- 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
- Typical Thermal Resistance: 33°C/W Junction to Ambient

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, 6
Steady State Power Dissipation	P _{M(AV)}	3.0 W	Note 5

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. Mounted on 5.0mm² copper pads to each terminal.
- 4. 8.3ms, single half sine wave duty cycle = 4 pulses per Minutes maximum.
- 5. Lead temperature at $T_L = 75^{\circ}C$.
- 6. Peak pulse power waveform is 10/1000 µs.



600 Watt Transient Voltage Suppressors 5.0 to 33 Volts



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SMA6J5.0A thru SMA6J33A



2013/10/22

SMA6J5.0A thru SMA6J33A

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MCC Part Number		Breakdown Voltage V _{BR} @ I _T		Maximum Reverse Leakage I _D (uA)	Reverse Stand-Off Voltage V _{WM} (Volts)	Maximum Reverse Surge Current Ipp(A) @10x1000us	Maximum Clamping Voltage Vc (Volts)	Device Marking Code		
Uni-polar	Bi-polar	Min. (V)	Max. (V)	I _T (mA)	@∨WM	(1013)	sinewave	@lpp	Uni	Bi
SMA6J5.0A		6.40	7.00	10	800	5.0	65.2	9.2	KE	
SMA6J6.0A		6.67	7.37	10	800	6.0	58.3	10.3	KG	
SMA6J9.0A	SMA6J9.0CA	10.0	11.1	1	5.0	9.0	39.0	15.4	KV	ΤV
SMA6J10A	SMA6J10CA	11.1	12.3	1	5.0	10	35.3	17.0	KX	ТХ
SMA6J11A	SMA6J11CA	12.2	13.5	1	5.0	11	33.0	18.2	ΚZ	ΤZ
SMA6J12A	SMA6J12CA	13.3	14.7	1	5.0	12	30.2	19.9	LE	UE
SMA6J13A	SMA6J13CA	14.4	15.9	1	5.0	13	27.9	21.5	LG	UG
SMA6J14A	SMA6J14CA	15.6	17.2	1	5.0	14	25.9	23.2	LK	UK
SMA6J15A	SMA6J15CA	16.7	18.5	1	5.0	15	24.6	24.4	LM	UM
SMA6J16A	SMA6J16CA	17.8	19.7	1	5.0	16	23.1	26.0	LP	UP
SMA6J17A	SMA6J17CA	18.9	20.9	1	5.0	17	21.7	27.6	LR	UR
SMA6J18A		20.0	22.1	1	5.0	18	20.5	29.2	LT	
SMA6J19A		21.1	23.3	1	5.0	19	19.5	30.8	LB	
SMA6J20A		22.2	24.5	1	5.0	20	18.5	32.4	LV	
SMA6J22A		24.4	26.9	1	5.0	22	16.9	35.5	LX	
SMA6J24A	SMA6J24CA	26.7	29.5	1	5.0	24	15.4	38.9	LZ	UZ
SMA6J26A		28.9	31.9	1	5.0	26	14.3	42.1	ME	
	SMA6J28CA	31.1	34.4	1	5.0	28	13.2	45.4		WG
SMA6J33A		36.7	40.6	1	5.0	33	11.3	53.3	MM	

Note:

1. For Bi-Directional devices having VR of 10 volts and under, the IR limit is double .

2. The items in blue character are still under development.

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Ordering Information :

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

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

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