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SMA6J5.0A THRU SMA6J40CA

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"
- UL Recognized File # E480232

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:

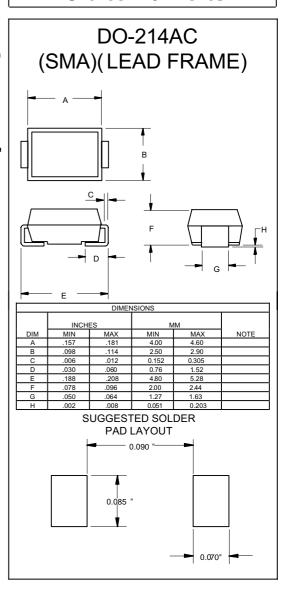
- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C
- Typical Thermal Resistance: 33°C/W Junction to lead

Peak Pulse Current on 10/1000us 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.

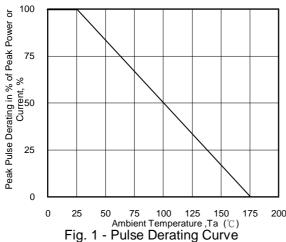
- 2. Non-repetitive current pulse, per Fig.4 and derated above $T_A=25^{\circ}\text{C}$ per Fig1
- 3. Mounted on 5.0mm² copper pads to each terminal.
- 4. 8.3ms, single half sine wave duty cycle = 4 pulses per Minutes maximum.
- 5. Lead temperature at $T_1 = 75^{\circ}$ C.
- 6. Peak pulse power waveform is 10/1000us

600 Watt Transient Voltage Suppressors 5.0 to 40 Volts





SMA6J5.0A thru SMA6J40CA



rig. 1 - 1 dise Delating Curve

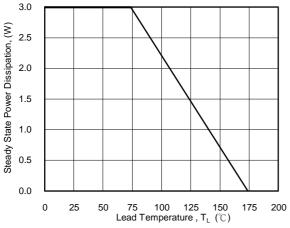


Fig. 2 - Steady State Power Derating Curve

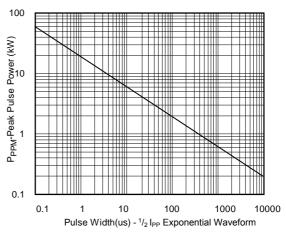


Fig. 3 - Peak Pulse Power Rating Curve

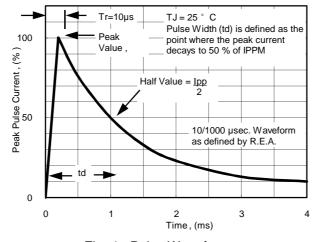


Fig. 4 - Pulse Waveform



SMA6J5.0A thru SMA6J40CA

MCC Part Number		Breakdown Voltage V _{BR} @ I _T		Maximum Reverse Leakage I _D (µA)	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)	@VWM	(1010)	sinewave	@Ipp	Uni	Bi
SMA6J5.0A		6.40	7.00	10	800	5.0	65.2	9.2	KE	
SMA6J6.0A	SMA6J6.0CA	6.67	7.37	10	800	6.0	58.3	10.3	KG	TG
SMA6J6.5A	SMA6J6.5CA	7.22	7.98	10	500	6.5	53.6	11.2	KK	TK
SMA6J7.0A	SMA6J7.0CA	7.78	8.60	10	200	7.0	50.0	12.0	KM	TM
SMA6J7.5A	SMA6J7.5CA	8.33	9.21	1	100	7.5	46.5	12.9	KP	TP
SMA6J8.0A	SMA6J8.0CA	8.89	9.83	1	50	8.0	44.1	13.6	KR	TR
SMA6J8.5A	SMA6J8.5CA	9.44	10.4	1	10	8.5	41.7	14.4	KT	TT
SMA6J9.0A	SMA6J9.0CA	10.0	11.1	1	5.0	9.0	39.0	15.4	KV	TV
SMA6J10A	SMA6J10CA	11.1	12.3	1	1.0	10	35.3	17.0	KX	TX
SMA6J11A	SMA6J11CA	12.2	13.5	1	1.0	11	33.0	18.2	KZ	TZ
SMA6J12A	SMA6J12CA	13.3	14.7	1	1.0	12	30.2	19.9	LE	UE
SMA6J13A	SMA6J13CA	14.4	15.9	1	1.0	13	27.9	21.5	LG	UG
SMA6J14A	SMA6J14CA	15.6	17.2	1	1.0	14	25.9	23.2	LK	UK
SMA6J15A	SMA6J15CA	16.7	18.5	1	1.0	15	24.6	24.4	LM	UM
SMA6J16A	SMA6J16CA	17.8	19.7	1	1.0	16	23.1	26.0	LP	UP
SMA6J17A	SMA6J17CA	18.9	20.9	1	1.0	17	21.7	27.6	LR	UR
SMA6J18A	SMA6J18CA	20.0	22.1	1	1.0	18	20.5	29.2	LT	UT
SMA6J19A	SMA6J19CA	21.1	23.3	1	1.0	19	19.5	30.8	LB	UB
SMA6J20A	SMA6J20CA	22.2	24.5	1	1.0	20	18.5	32.4	LV	UV
SMA6J22A	SMA6J22CA	24.4	26.9	1	1.0	22	16.9	35.5	LX	UX
SMA6J24A	SMA6J24CA	26.7	29.5	1	1.0	24	15.4	38.9	LZ	UZ
SMA6J26A	SMA6J26CA	28.9	31.9	1	1.0	26	14.3	42.1	ME	WE
SMA6J28A	SMA6J28CA	31.1	34.4	1	1.0	28	13.2	45.4	MG	WG
SMA6J30A	SMA6J30CA	33.3	36.8	1	1.0	30	12.4	48.4	MK	WK
SMA6J33A	SMA6J33CA	36.7	40.6	1	1.0	33	11.3	53.3	MM	WM
SMA6J36A	SMA6J36CA	40.0	44.2	1	1.0	36	10.3	58.1	MP	WP
SMA6J40A	SMA6J40CA	44.4	49.1	1	1.0	40	9.3	64.5	MR	WR

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.



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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