

91

E480232

Features

- · AEC-Q101 Qualified
- · Excellent Clamping Capability
- · For Surface Mount Applications
- · Glass Passivated Junction
- Halogen Free. "Green" Device (Note 1)
- High Temp Soldering: 260°C / 10 Seconds At Terminals
- For Bidirectional Devices Add "C" to The Suffix of The Part Number: i.e.SMA6J13CAHE3 for 5% Tolerance
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

Polarity: Indicated by Cathode Band Except Bi-directional Types

Maximum Ratings

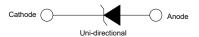
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 33°C/W Junction to Lead

Peak Pulse Power Surge Current with a 10/1000µs Waveform	I _{PPM}	See the Table	Note 3
Peak Pulse Power Dissipation	P _{PPM}	600 W(Min.)	Note 3
Power Dissipatoin on Infinite Heatsink	P _D	3.0 W	T _L = 75°C
Peak Forward Surge Current Unidirectional Only	I _{FSM}	60 A	Note 4

Note:

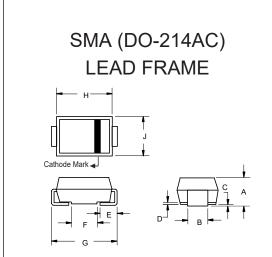
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.
- 3. Non-repetitive current pulse per Fig.3 and derated above T_A = 25 °C per Fig.4
- 4. Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum

Pin Configuration:



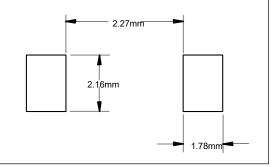


600 Watt TVS 10 to 100 Volts



DIMENSIONS						
DIM INCHES		HES	М	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.075	0.096	1.90	2.44		
В	0.050	0.064	1.27	1.63		
С	0.002	0.008	0.051	0.203		
D		0.020		0.51		
E	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.189	0.220	4.80	5.59		
Н	0.157	0.187	4.00	4.75		
J	0.090	0.115	2.25	2.92		

SUGGESTED SOLDER PAD LAYOUT





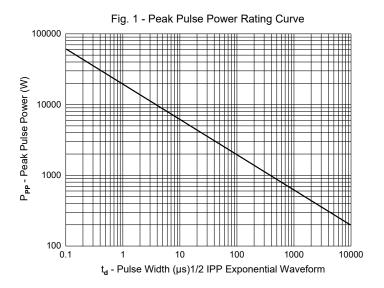
Electrical Characteristics @ 25°C Unless Otherwise Specified

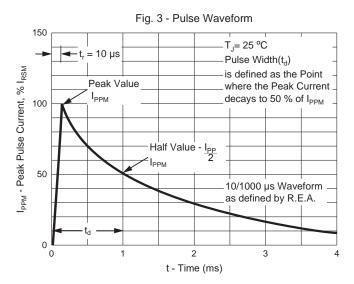
M(Part N		Breakdown Voltage V _{BR} @ I _T				Maximum Reverse Surge Current I _{pp} (A) @10x1000us	Maximum Clamping Voltage V _c (Volts)	Device Marking Code		
Uni-polar	Bi-polar	Min. (V)	Max. (V)	I_T (mA)	@V _{WM}		sinewave	@I _{pp}	Uni	Bi
SMA6J10AHE3	SMA6J10CAHE3	11.1	12.3	1	5.0	10	35.3	17.0	KX	TX
SMA6J11AHE3	SMA6J11CAHE3	12.2	13.5	1	5.0	11	33.0	18.2	KZ	TZ
SMA6J12AHE3	SMA6J12CAHE3	13.3	14.7	1	5.0	12	30.2	19.9	LE	UE
SMA6J13AHE3	SMA6J13CAHE3	14.4	15.9	1	1.0	13	27.9	21.5	LG	UG
SMA6J14AHE3	SMA6J14CAHE3	15.6	17.2	1	1.0	14	25.9	23.2	LK	UK
SMA6J15AHE3	SMA6J15CAHE3	16.7	18.5	1	1.0	15	24.6	24.4	LM	UM
SMA6J16AHE3	SMA6J16CAHE3	17.8	19.7	1	1.0	16	23.1	26.0	LP	UP
SMA6J17AHE3	SMA6J17CAHE3	18.9	20.9	1	1.0	17	21.7	27.6	LR	UR
SMA6J18AHE3	SMA6J18CAHE3	20.0	22.1	1	1.0	18	20.5	29.2	LT	UT
SMA6J19AHE3	SMA6J19CAHE3	21.1	23.3	1	1.0	19	19.5	30.8	LB	UB
SMA6J20AHE3	SMA6J20CAHE3	22.2	24.5	1	1.0	20	18.5	32.4	LV	UV
SMA6J22AHE3	SMA6J22CAHE3	24.4	26.9	1	1.0	22	16.9	35.5	LX	UX
SMA6J24AHE3	SMA6J24CAHE3	26.7	29.5	1	1.0	24	15.4	38.9	LZ	UZ
SMA6J26AHE3	SMA6J26CAHE3	28.9	31.9	1	1.0	26	14.3	42.1	ME	WE
SMA6J28AHE3	SMA6J28CAHE3	31.1	34.4	1	1.0	28	13.2	45.4	MG	WG
SMA6J30AHE3	SMA6J30CAHE3	33.3	36.8	1	1.0	30	12.4	48.4	MK	WK
SMA6J33AHE3	SMA6J33CAHE3	36.7	40.6	1	1.0	33	11.3	53.3	MM	WM
SMA6J36AHE3	SMA6J36CAHE3	40.0	44.2	1	1.0	36	10.3	58.1	MP	WP
SMA6J40AHE3	SMA6J40CAHE3	44.4	49.1	1	1.0	40	9.3	64.5	MR	WR
SMA6J43AHE3	-	47.8	52.8	1	1.0	43	8.7	69.4	MT	-
SMA6J45AHE3	-	50.0	55.3	1	1.0	45	8.3	72.7	MV	-
SMA6J48AHE3	-	53.3	58.9	1	1.0	48	7.8	77.4	MX	-
SMA6J51AHE3	-	56.7	62.7	1	1.0	51	7.3	82.4	MZ	-
SMA6J54AHE3	-	60.0	66.3	1	1.0	54	6.9	87.1	NE	-
SMA6J58AHE3	-	64.4	71.2	1	1.0	58	6.4	93.6	NG	-
SMA6J60AHE3	-	66.7	73.7	1	1.0	60	6.2	96.8	NK	-
SMA6J64AHE3	-	71.1	78.6	1	1.0	64	5.8	103.0	NM	-
SMA6J70AHE3	-	77.8	86.0	1	1.0	70	5.3	113.0	NP	-
SMA6J75AHE3	-	83.3	92.1	1	1.0	75	5.0	121.0	NR	-
SMA6J78AHE3	-	86.7	95.8	1	1.0	78	4.8	126.0	NT	-
SMA6J80AHE3	-	88.8	97.6	1	1.0	80	4.6	129.6	NV	-
SMA6J85AHE3	-	94.4	104.0	1	1.0	85	4.4	137.0	NX	-
SMA6J90AHE3	-	100.0	111.0	1	1.0	90	4.1	146.0	NZ	-
SMA6J100AHE3	-	111.0	123.0	1	1.0	100	3.7	162.0	OE	-

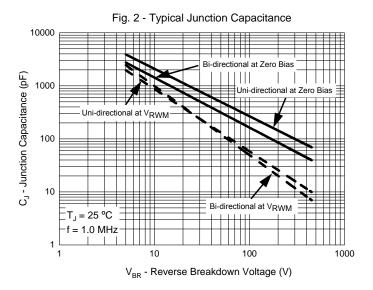
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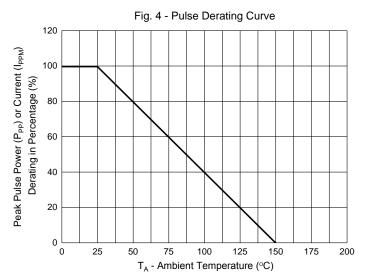


Curve Characteristics











Ordering Information

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

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