

### SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 3000 Watt

STAND-OFF VOLTAGE

### 5 to 220 Volt

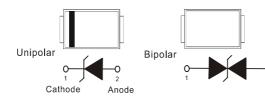
## Recongnized File # E210467

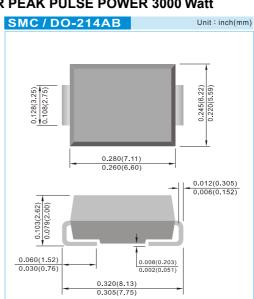
### FEATURES

- For surface mounted applications in order to optimize board space
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals
- ESD IEC-61000-4-2 Air + 30kV, Contact + 30kV
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **MECHANICAL DATA**

- Case : JEDEC DO-214AB, Molded plastic over passivated junction.
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Standard Packaging : 16mm tape (EIA-481)
- Approx. Weight : 0.2325 grams





#### DEVICES FOR BIPOLARAPPLICATIONS

For Bidirectional use CA Suffix for types 3.0SMCJ5.0CA thru types 3.0SMCJ220CA. Electrical characteristics apply in both directions.

#### MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For Capacitive load derate current by 20%.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on tp=10/1000 $\mu s$ waveform (Notes 1, Fig.1)	Ррр	3000	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (Notes 2)	IFSM	300	Amps
Peak Pulse Current on tp=10/1000 $\mu s$ waveform (Notes 1) Fig.3	Іррм	see Table 1	Amps
Typical Thermal Resistance Junction to Air	R <sub>eja</sub>	25	°C / W
ESD IEC-61000-4-2 (Air) ESD IEC-61000-4-2 (Contact)	VESD	<u>+</u> 30 <u>+</u> 30	kV
Operating Junction and Storage Temperature Range	Тյ, Тѕтс	-55 to +150	°C

NOTES :

1.Non-repetitive current pulse, per Fig. 3 and derated above  $\rm T_{A}=25^{\circ}C$  per Fig. 2.

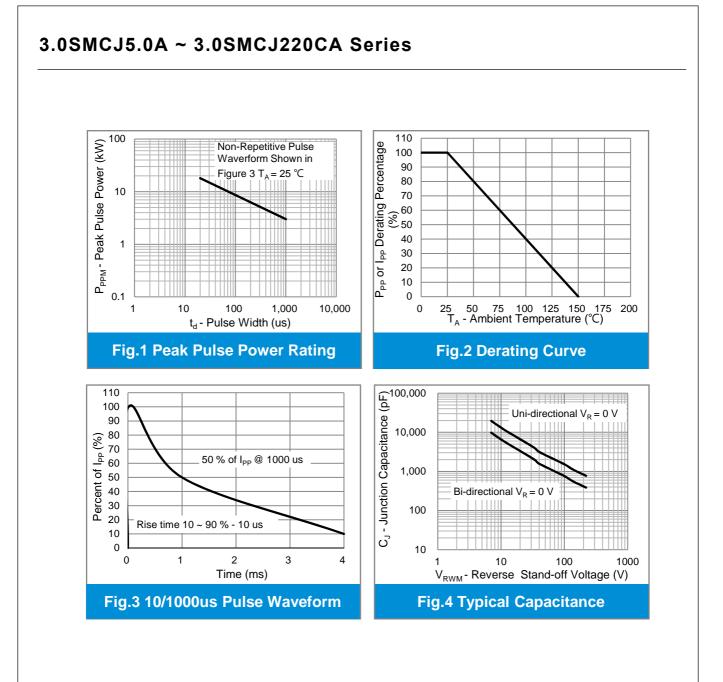
2.Measured on 8.3ms single half sine wave or equivalent square wave for unidirectional device only, duty cycle=4 per minute maximum. 3.A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC

or continuous peak operating voltage level.



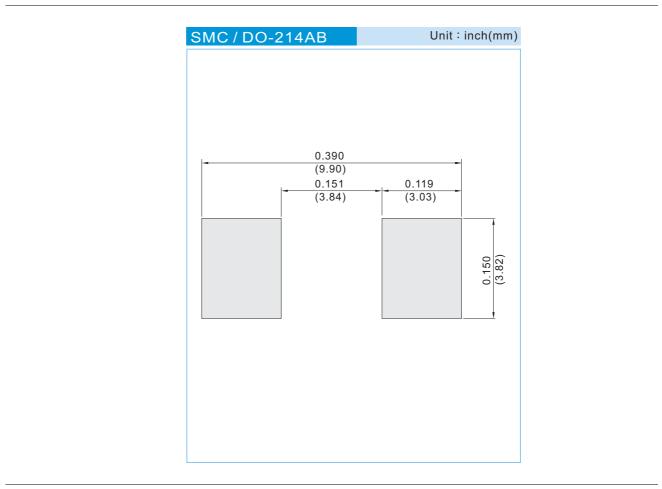
Part Number		Reverse Stand-off Voltage	Break Vol	Breakdown Voltage		Reverse Leakage k @ Vrwm UNI BI		Max. Clamp Voltage 10/1000us Vc @ IPP	Peak Pulse Current 10/1000us	Marking Code	
		VRWM (Notes 3)	V <sub>BR</sub> @ It Min. Max.		Ιτ						
UNI	BI	V	V	V	mA	uA	uA	V	А	UNI	BI
3000W Transier	nt Voltage Suppresso	or									
3.0SMCJ5.0A	3.0SMCJ5.0CA	5	6.4	7.25	10	1000	2000	9.2	326	HDE	IDE
3.0SMCJ6.0A	3.0SMCJ6.0CA	6	6.67	7.67	10	1000	2000	10.3	291.3	HDG	IDG
3.0SMCJ6.5A	3.0SMCJ6.5CA	6.5	7.22	8.3	10	500	1000	11.2	267.9	HDK	IDK
3.0SMCJ7.0A	3.0SMCJ7.0CA	7	7.78	8.95	10	200	400	12	250	HDM	ЮM
3.0SMCJ7.5A	3.0SMCJ7.5CA	7.5	8.33	9.6	1	100	200	12.9	232.6	HDP	IDP
3.0SMCJ8.0A	3.0SMCJ8.0CA	8	8.89	10.23	1	50	100	13.6	220.6	HDR	IDR
3.0SMCJ8.5A	3.0SMCJ8.5CA	8.5	9.44	10.82	1	25	50	14.4	208.4	HDT	IDT
3.0SMCJ9.0A	3.0SMCJ9.0CA	9	10	11.5	1	10	20	15.4	194.8	HDV	IDV
3.0SMCJ10A	3.0SMCJ10CA	10	11.1	12.8	1	3	3	17	176.4	HDX	ЮX
3.0SMCJ11A	3.0SMCJ11CA	11	12.2	14	1	3	3	18.2	184.8	HDZ	IDZ
3.0SMCJ12A	3.0SMCJ12CA	12	13.3	15.3	1	3	3	19.9	150.6	HEE	IEE
3.0SMCJ13A	3.0SMCJ13CA	13	14.4	16.5	1	3	3	21.5	139.4	HEG	IEG
3.0SMCJ13A	3.0SMCJ14CA	13	15.6	17.9	1	3	3	23.2	129.4	HEK	IEK
3.0SMCJ14A	3.0SMCJ15CA	14	16.7	19.2	1	3	3	23.2	123.4	HEM	IEM
3.0SMCJ16A	3.0SMCJ16CA	16	17.8	20.5	1	3	3	24.4	115.4	HEP	IEP
3.0SMCJ17A	3.0SMCJ17CA	17	18.9	21.7	1	3	3	27.6	106.6	HER	IER
3.0SMCJ18A	3.0SMCJ18CA	18	20	23.3	1	3	3	29.2	102.8	HET	IET
3.0SMCJ20A	3.0SMCJ20CA	20	22.2	25.5	1	3	3	32.4	92.6	HEV	IEV
3.0SMCJ22A	3.0SMCJ22CA	20	24.4	28	1	3	3	35.5	84.4	HEX	IEX
3.0SMCJ24A	3.0SMCJ24CA	24	26.7	30.7	1	3	3	38.9	77.2	HEZ	IEZ
3.0SMCJ26A	3.0SMCJ26CA	26	28.9	33.2	1	3	3	42.1	71.2	HFE	IFE
3.0SMCJ28A	3.0SMCJ28CA	28	31.1	35.8	1	3	3	45.4	66	HFG	IFG
3.0SMCJ28A	3.0SMCJ28CA	30	33.3	38.3		3	3	45.4	62	HFG	IFK
3.0SMCJ30A	3.0SMCJ30CA	33	36.7	42.2	1	3	3	53.3	56.2	HFM	IFM
3.0SMCJ36A	3.0SMCJ36CA	36	40	46	1	3	3	58.1	51.6	HFP	IFP
3.0SMCJ30A	3.0SMCJ40CA	40		51.1	1	3	3	64.5	46.4	HFR	IFR
			44.4								
3.0SMCJ43A	3.0SMCJ43CA	43	47.8	54.9	1	3	3	69.4	43.2	HFT	IFT
3.0SMCJ45A	3.0SMCJ45CA	45	50	57.5	1	3	3	72.7	41.2	HFV	IFV
3.0SMCJ48A	3.0SMCJ48CA	48	53.3	61.3	1	3	3	77.4	38.8	HFX	IFX
3.0SMCJ51A	3.0SMCJ51CA	51	56.7	65.2	1	3	3	82.4	36.4	HFZ	IFZ
3.0SMCJ54A	3.0SMCJ54CA	54	60	69	1	3	3	87.1	34.4	HGE	IGE
3.0SMCJ58A	3.0SMCJ58CA	58	64.4	74.1	1	3	3	93.6	32	HGG	IGG
3.0SMCJ60A	3.0SMCJ60CA	60	66.7	76.7	1	3	3	96.8	31	HGK	IGK
3.0SMCJ64A	3.0SMCJ64CA	64	71.1	81.8	1	3	3	103	29.2	HGM	IGM
3.0SMCJ70A	3.0SMCJ70CA	70	77.8	89.5	1	3	3	113	26.6	HGP	IGP
3.0SMCJ75A	3.0SMCJ75CA	75	83.3	95.8	1	3	3	121	24.8	HGR	IGR
3.0SMCJ78A	3.0SMCJ78CA	78	86.7	99.7	1	3	3	126	22.8	HGT	IGT
3.0SMCJ85A	3.0SMCJ85CA	85	94.4	108.2	1	3	3	137	20.8	HGV	IGV
3.0SMCJ90A	3.0SMCJ90CA	90	100	115.5	1	3	3	146	20.6	HGX	IGX
3.0SMCJ100A	3.0SMCJ100CA	100	111	128	1	3	3	162	18.6	HGZ	IGZ
3.0SMCJ110A	3.0SMCJ110CA	110	122	140.5	1	3	3	177	16.8	HHE	IHE
3.0SMCJ120A	3.0SMCJ120CA	120	133	153	1	3	3	193	15.6	HHG	IHG
3.0SMCJ130A	3.0SMCJ130CA	130	144	165.5	1	3	3	209	14.4	ннк	IHK
3.0SMCJ150A	3.0SMCJ150CA	150	167	192.5	1	3	3	243	12.4	HHM	IHM
3.0SMCJ160A	3.0SMCJ160CA	160	178	205	1	3	3	259	11.6	HHP	IHP
3.0SMCJ170A	3.0SMCJ170CA	170	189	217.5	1	3	3	275	11	HHR	IHR
3.0SMCJ180A	3.0SMCJ180CA	180	198	230.4	1	3	3	292	10.3	HHT	IHT
3.0SMCJ190A	3.0SMCJ190CA	190	209	243.2	1	3	3	308	9.7	HHV	IHV
3.0SMCJ200A	3.0SMCJ200CA	200	220	256	1	3	3	324	9.3	HHX	IHX
3.0SMCJ210A	3.0SMCJ210CA	210	231	268.8	1	3	3	340	8.8	HHZ	IHZ
3.0SMCJ220A	3.0SMCJ220CA	220	242	281.6	1	3	3	356	8.4	HIE	IIE







### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

- Packing information
  - T/R 3K per 13" plastic Reel
  - T/R 0.8K per 7" plastic Reel



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