

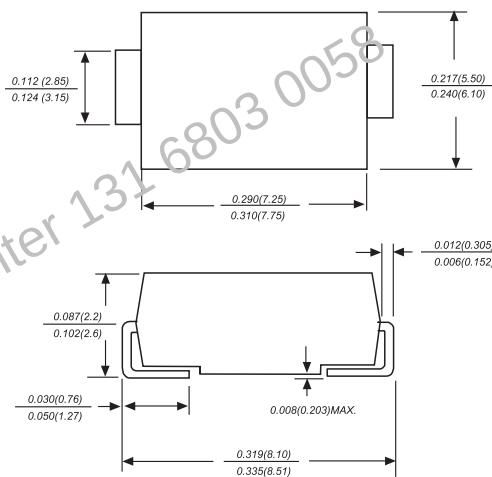
Features

- ✧ 3000W peak pulse power capability with a 10/1000 μ s waveform
- ✧ Excellent clamping capability
- ✧ Low inductance
- ✧ High temperature soldering : 250 °C/10 seconds at terminals.
- ✧ Built-in strain relief

Mechanical Data

- ✧ Case : DO-214AB Molded plastic
- ✧ Lead : Lead Formed for Surface Mount
- ✧ Mounting position : Any
- ✧ Weight : 0.21 gram

SMC /DO-214AB



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s waveform ⁽¹⁾ ⁽²⁾	P _{PPM}	3000	W
Peak Pulse Current on 10/1000 s waveform ⁽¹⁾	I _{PPM}	See Next Table	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load ⁽²⁾ ⁽³⁾	I _{FSM}	200	A
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 55 to + 150	°C

Notes :

- (1) Non-repetitive Current pulse, per Fig. 3 and derated above Ta = 25 °C per Fig. 1
- (2) Mounted on 5.0 mm² (0.013 thick) land areas.
- (3) Measured on 8.3 ms , single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

3000W 3.0SMCJ Series

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

3.0SMCJ PART NUMBER		V _{RWM}	V(BR)		I(T)	I _r @V _{RWM}	I _{ppm}	V _c @I _{ppm}
BI-POLAR	UNI-POLAR	V	Min.V	Max.V	mA	Max.uA	Max.A	Max.V
3.0SMCJ5.0CA	3.0SMCJ5.0A	5.0	6.4	7.00	10	800	326.1	9.2
3.0SMCJ6.0CA	3.0SMCJ6.0A	6.0	6.67	7.37	10	800	291.3	10.3
3.0SMCJ6.5CA	3.0SMCJ6.5A	6.5	7.22	7.98	10	500	267.9	11.2
3.0SMCJ7.0CA	3.0SMCJ7.0A	7.0	7.78	8.60	10	200	250.0	12.0
3.0SMCJ7.5CA	3.0SMCJ7.5A	7.5	8.33	9.21	1	100	232.6	12.9
3.0SMCJ8.0CA	3.0SMCJ8.0A	8.0	8.89	10.12	1	50	220.6	13.6
3.0SMCJ8.5CA	3.0SMCJ8.5A	8.5	9.44	10.40	1	20	208.4	14.4
3.0SMCJ9.0CA	3.0SMCJ9.0A	9.0	10.00	11.10	1	10	194.8	15.4
3.0SMCJ10CA	3.0SMCJ10A	10.0	11.10	12.30	1	5	176.5	17.0
3.0SMCJ11CA	3.0SMCJ11A	11.0	12.20	14.80	1	2	164.8	18.2
3.0SMCJ12CA	3.0SMCJ12A	12.0	13.30	14.70	1	2	150.8	19.9
3.0SMCJ13CA	3.0SMCJ13A	13.0	14.40	15.90	1	2	139.4	21.5
3.0SMCJ14CA	3.0SMCJ14A	14.0	15.60	17.20	1	2	129.4	23.2
3.0SMCJ15CA	3.0SMCJ15A	15.0	16.70	18.50	1	2	115.4	24.4
3.0SMCJ16CA	3.0SMCJ16A	16.0	17.80	19.70	1	2	115.4	26.0
3.0SMCJ17CA	3.0SMCJ17A	17.0	18.90	20.90	1	2	108.7	27.6
3.0SMCJ18CA	3.0SMCJ18A	18.0	20.00	22.10	1	2	102.7	29.2
3.0SMCJ20CA	3.0SMCJ20A	20.0	22.20	24.50	1	2	92.6	32.4
3.0SMCJ22CA	3.0SMCJ22A	22.0	24.40	26.90	1	2	84.5	35.5
3.0SMCJ24CA	3.0SMCJ24A	24.0	26.70	29.50	1	2	77.2	38.9
3.0SMCJ26CA	3.0SMCJ26A	26.0	28.90	31.90	1	2	71.2	42.1
3.0SMCJ28CA	3.0SMCJ28A	28.0	31.10	34.40	1	2	66.2	45.4
3.0SMCJ30CA	3.0SMCJ30A	30.0	33.30	36.80	1	2	62.0	48.4
3.0SMCJ33CA	3.0SMCJ33A	33.0	36.70	40.60	1	2	56.3	53.3
3.0SMCJ36CA	3.0SMCJ36A	36.0	40.00	44.20	1	2	51.6	58.1
3.0SMCJ40CA	3.0SMCJ40A	40.0	44.40	49.10	1	2	46.4	64.5
3.0SMCJ43CA	3.0SMCJ43A	43.0	47.80	52.80	1	2	69.4	43.2
3.0SMCJ45CA	3.0SMCJ45A	45.0	50.00	55.30	1	2	41.2	72.7
3.0SMCJ48CA	3.0SMCJ48A	48.0	53.30	58.90	1	2	38.8	77.4
3.0SMCJ51CA	3.0SMCJ51A	51.0	56.70	62.70	1	2	36.4	82.4
3.0SMCJ54CA	3.0SMCJ54A	54.0	60.00	66.30	1	2	34.4	87.1
3.0SMCJ58CA	3.0SMCJ58A	58.0	64.40	71.20	1	2	32.0	93.0
3.0SMCJ60CA	3.0SMCJ60A	60.0	66.70	73.70	1	2	31.0	96
3.0SMCJ64CA	3.0SMCJ64A	64.0	71.10	78.60	1	2	29.2	103.0
3.0SMCJ70CA	3.0SMCJ70A	70.0	77.80	86.00	1	2	26.6	113.0
3.0SMCJ75CA	3.0SMCJ75A	75.0	83.30	92.10	1	2	24.8	121.0
3.0SMCJ78CA	3.0SMCJ78A	78.0	86.70	95.80	1	2	22.8	126.0

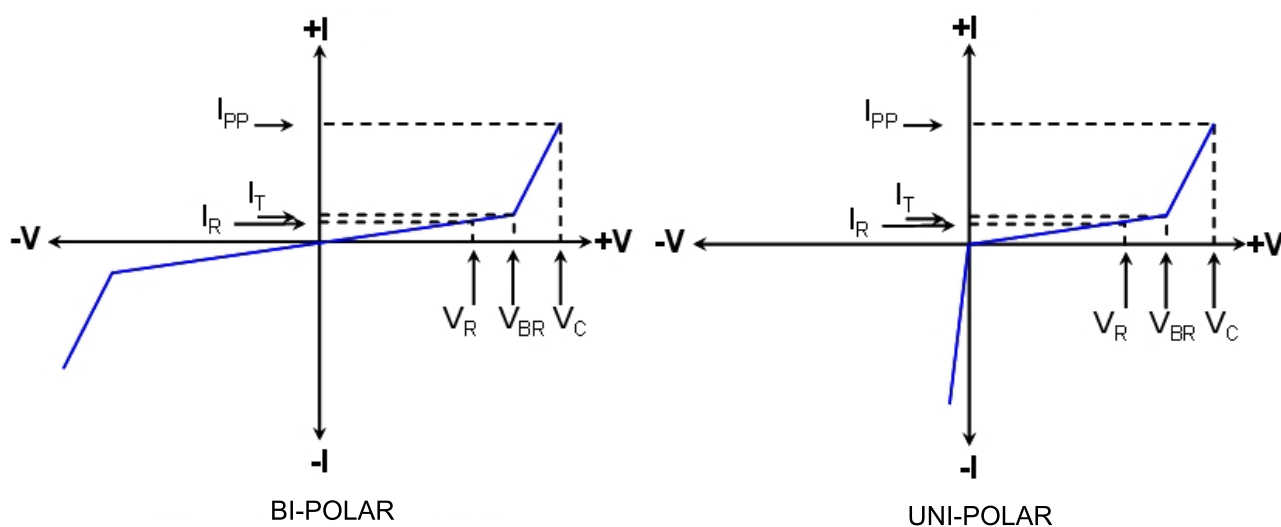
3000W 3.0SMCJ Series

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

3.0SMCJ PART NUMBER		V_{RWM}	$V(BR)$		$I(T)$	$I_r@V_{RWM}$	I_{ppm}	$V_c@I_{ppm}$
BI-POLAR	UNI-POLAR	V	Min.V	Max.V	mA	Max.uA	Max.A	Max.V
3.0SMCJ85CA	3.0SMCJ85A	85.0	94.40	104.00	1	2	20.8	137.0
3.0SMCJ90CA	3.0SMCJ90A	90.0	100.00	111.00	1	2	20.6	146.0
3.0SMCJ100CA	3.0SMCJ100A	100.0	110.00	123.00	1	2	18.5	162.0
3.0SMCJ110CA	3.0SMCJ110A	110.0	122.00	135.00	1	2	16.9	177.0
3.0SMCJ120CA	3.0SMCJ120A	120.0	133.00	147.00	1	2	15.8	193.0
3.0SMCJ130CA	3.0SMCJ130A	130.0	144.00	159.00	1	2	13.0	231.0
3.0SMCJ150CA	3.0SMCJ150A	150.0	167.00	185.00	1	2	12.4	243.0
3.0SMCJ160CA	3.0SMCJ160A	160.0	178.00	197.00	1	2	11.6	259.0
3.0SMCJ170CA	3.0SMCJ170A	170.0	189.00	209.00	1	2	11.0	275.0
3.0SMCJ180CA	3.0SMCJ180A	180.0	198.00	230.40	1	2	10.2	292.0
3.0SMCJ200CA	3.0SMCJ200A	200.0	220.00	256.00	1	2	9.20	324.0
3.0SMCJ210CA	3.0SMCJ210A	210.0	231.00	268.80	1	2	8.80	340.0
3.0SMCJ220CA	3.0SMCJ220A	220.0	242.00	281.60	1	2	8.40	356.0
3.0SMCJ250CA	3.0SMCJ250A	250.0	279.00	309.00	1	2	7.40	405.0
3.0SMCJ300CA	3.0SMCJ300A	300.0	335.00	371.00	1	2	6.20	486.0
3.0SMCJ350CA	3.0SMCJ350A	350.0	391.00	432.00	1	2	5.20	567.0
3.0SMCJ400CA	3.0SMCJ400A	400.0	447.00	494.00	1	2	4.60	648.0

U-I Characteristics



RATING AND CHARACTERISTIC CURVES (3.0SMCJ Series)

FIG.1 - PULSE DERATING CURVE

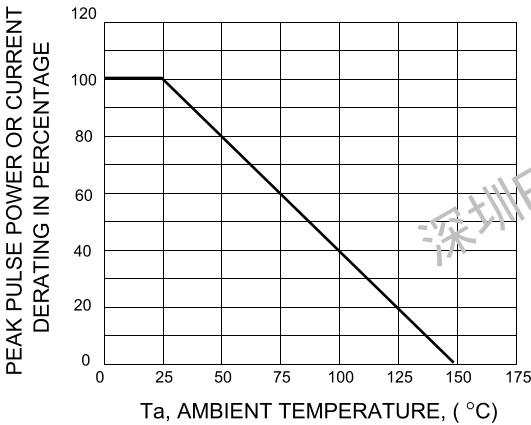


FIG.2 - TYPICAL JUNCTION CAPACITANCE

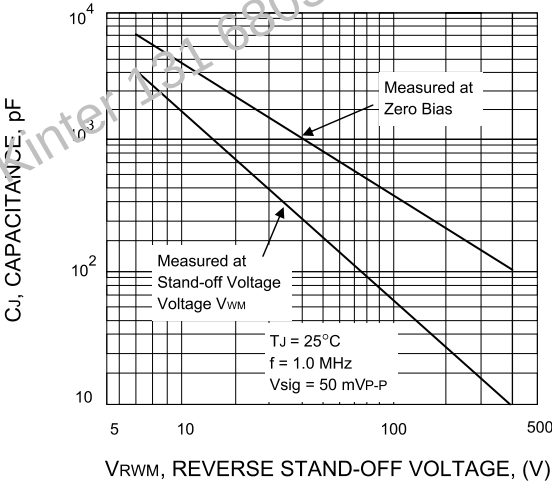


FIG.3 - PULSE WAVEFORM

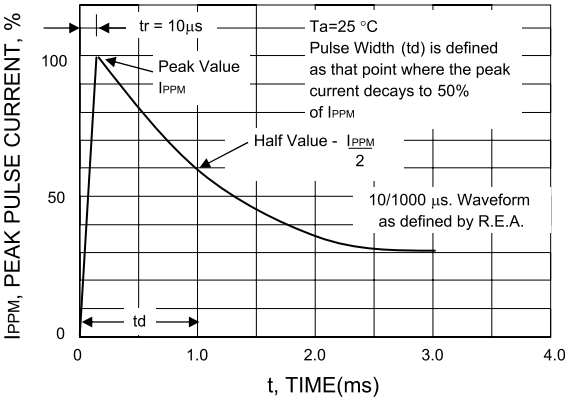
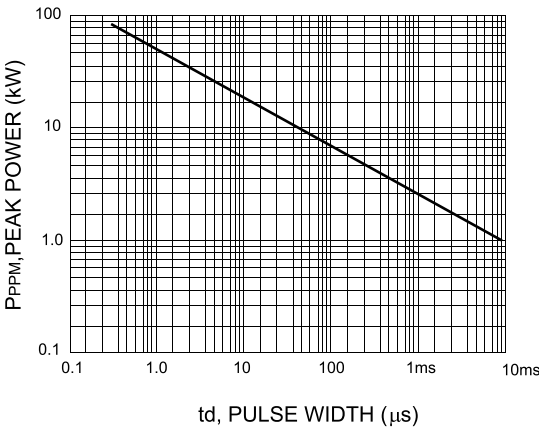


FIG.4 - PEAK PULSE POWER RATING CURVE





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.