

3.0SMCJ180 – 3.0SMCJ220CA

3000W SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Features

- Glass Passivated Die Construction
- 3000W Peak Pulse Power Dissipation
- 180V 220V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band Except Bi-Directional
- Marking: Device Code
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 5

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SMC/DO-214AB					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.25			
D	0.152	0.305			
Е	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

"C" Suffix Designates Bi-directional Devices "A" Suffix Designates 5% Tolerance Devices No Suffix Designates 10% Tolerance Devices

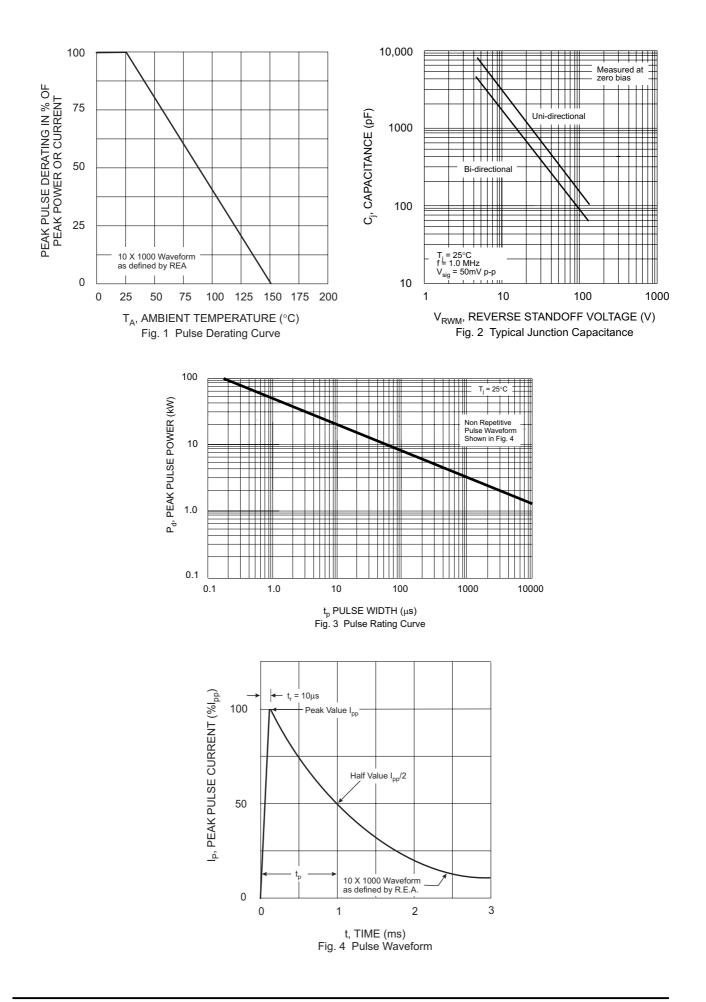
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation 10/1000µS Waveform (Note 1, 2) Figure 3	Рррм	3000 Minimum	W
Peak Pulse Current on 10/1000µS Waveform (Note 1) Figure 4	Іррм	See Table 1	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) (Note 2, 3)	IFSM	100	А
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150	°C

Note: 1. Non-repetitive current pulse per Figure 4 and derated above $T_A = 25^{\circ}C$ per Figure 1.

2. Mounted on 8.0mm² copper pad to each terminal.

3. Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.



UNI-DIRECTIONAL 3000 WATT SURFACE MOUNT TVS

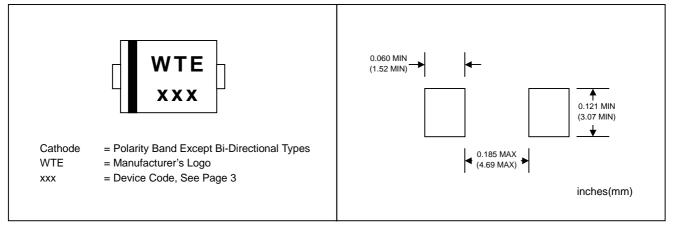
UNI- DIRECTIONAL PART NO.	DEVICE MARKING CODE	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @IT	BREAKDOWN VOLTAGE VBR (V) MAX. @IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @VRWM IR (uA)
3.0SMCJ180 3.0SMCJ180A 3.0SMCJ190 3.0SMCJ190A	HHS HHT HHU HHV	180.00 180.00 190.00 190.00	198.00 198.00 209.00 209.00	253.80 230.40 267.90 243.20	1 1 1 1	322.0 292.0 340.0 308.0	9.3 10.3 8.8 9.7	5 5 5 5 5
3.0SMCJ200 3.0SMCJ200A 3.0SMCJ210 3.0SMCJ210A	HHW HHX HHY HHZ	200.00 200.00 210.00 210.00	220.00 220.00 231.00 231.00	282.00 256.00 296.10 268.80	1 1 1 1	358.0 324.0 376.0 340.0	8.4 9.3 7.8 8.8	5 5 5 5 5
3.0SMCJ220 3.0SMCJ220A	HID HIE	220.00 220.00	242.00 242.00	310.20 281.60	1 1	394.0 356.0	7.6 8.4	5 5

BI-DIRECTIONAL 3000 WATT SURFACE MOUNT TVS

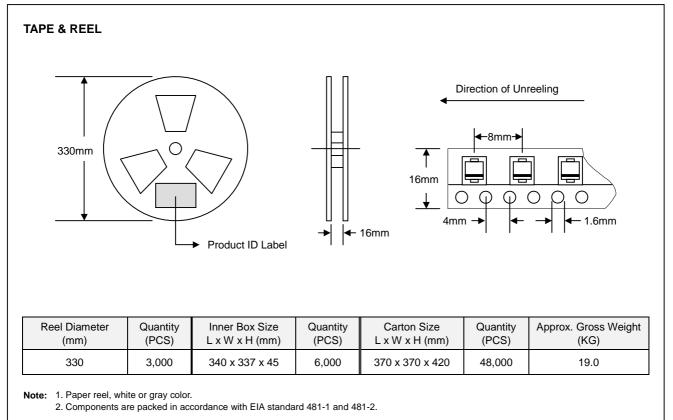
BI- DIRECTIONAL PART NO.	DEVICE MARKING CODE	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @IT	BREAKDOWN VOLTAGE VBR (V) MAX. @IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @VRWM IR (uA)
3.0SMCJ180C 3.0SMCJ180CA 3.0SMCJ190C 3.0SMCJ190CA	IHS IHT IHU IHV	180.00 180.00 190.00 190.00	198.00 198.00 209.00 209.00	253.80 230.40 267.90 243.20	1 1 1 1	322.0 292.0 340.0 308.0	9.3 10.3 8.8 9.7	5 5 5 5 5
3.0SMCJ200C 3.0SMCJ200CA 3.0SMCJ210C 3.0SMCJ210CA	IHW IHX IHY IHZ	200.00 200.00 210.00 210.00	220.00 220.00 231.00 231.00	282.00 256.00 296.10 268.80	1 1 1 1	358.0 324.0 376.0 340.0	8.4 9.3 7.8 8.8	5 5 5 5 5
3.0SMCJ220C 3.0SMCJ220CA	IID IIE	220.00 220.00	242.00 242.00	310.20 281.60	1 1	394.0 356.0	7.6 8.4	5 5

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
3.0SMCJxx-T3	SMC	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum

order quantity, please consult the Sales Department. To order RoHS / Lead Free version, add "-LF" suffix to part number above. For example, 3.0SMCJ180-T3-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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