

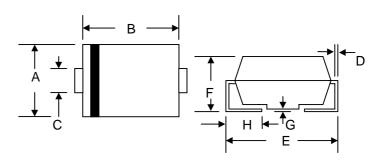
3.0SMCJ180 - 3.0SMCJ220CA



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



Mechanical Data

- 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

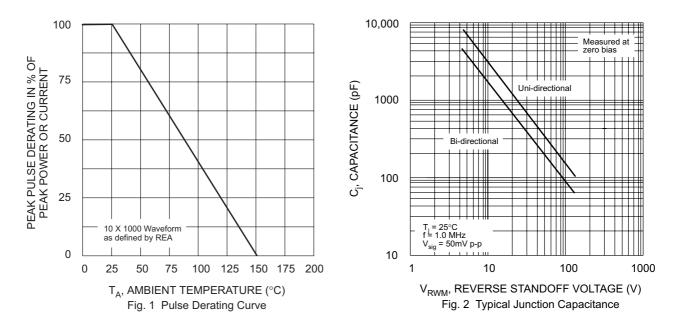
SMC/DO-214AB						
Dim Min Max						
Α	5.59	6.22				
В	6.60	7.11				
С	2.75	3.25				
D	0.152	0.305				
E 🐠	7.75	8.13				
F 2.00 2.62						
G 0.051 0.203						
H C	0.76	1.27				
All Dimensions in mm						

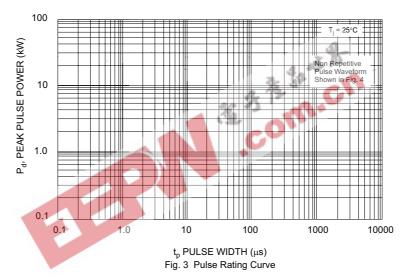
"C" Suffix Designates Bi-directional Devices "A" Suffix Designates 5% Tolerance Devices No Suffix Designates 10% Tolerance Devices

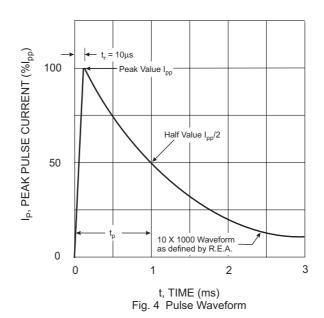
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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	[РРМ	See Table 1	Α
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°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.







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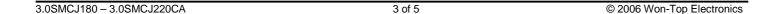
3.0SMCJ180 - 3.0SMCJ220CA

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	HHS	180.00	198.00	253.80	1	322.0	9.3	5
3.0SMCJ180A	HHT	180.00	198.00	230.40	1	292.0	10.3	5
3.0SMCJ190	HHU	190.00	209.00	267.90	1	340.0	8.8	5
3.0SMCJ190A	HHV	190.00	209.00	243.20	1	308.0	9.7	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	358.0 324.0 376.0 340.0	8.4 9.3 7.8 8.8	5 5 5 5
3.0SMCJ220	HID	220.00	242.00	310.20	1	394.0	7.6	5
3.0SMCJ220A	HIE	220.00	242.00	281.60	1	356.0	8.4	5

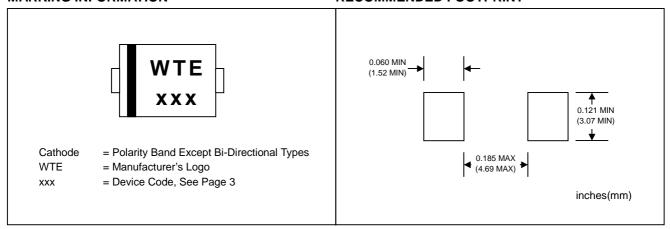
BI-DIRECTIONAL 3000 WATT SURFACE MOUNT TVS

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 @lpp 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	322.0 292.0 340.0 308.0	9.3 10.3 8.8 9.7	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
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
	3.05MCJ220CA IIIE 220.00 242.00 310.20 1 394.0 7.6 5 3.05MCJ220CA IIIE 220.00 242.00 281.60 1 356.0 8.4 5							

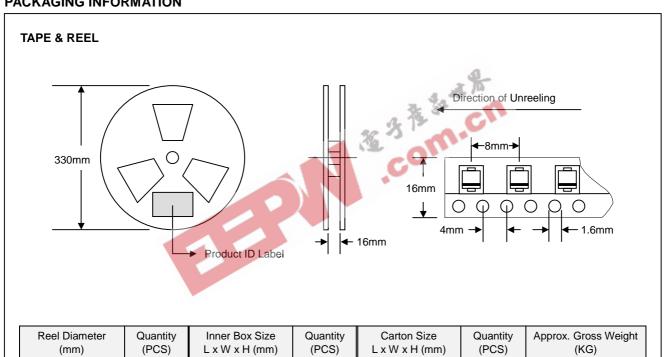


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	19.0

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

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

- 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.



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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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