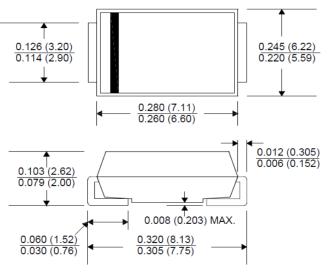


SMCJ5.0 thru SMCJ440

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

DO-214AB (SMC J-Bend)



	Dimensions	in inche	s and(millin	neters)
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Agency	Agency File Number		
71 °	E521119		

PRIMARY CHARACT	TERISTICS
VRWM	5.0V to 440V
VBR	6.4V to 543V
РРРМ	1500W
T _J max	150°C
Polarity	Uni-directional & Bi-directional
Package	DO-214AB

FEATURES

- For surface mounted applications in order to optimize board space
- Typical maximum temperature coefficient ∆VBR=0.1%xVBR@25°C x∆T
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Excellent clamping capability
- Repetition Rate (duty cycle):0.01%
- Fast response time: typically less than 1.0ps from 0 Volts to BV
- Meet MSL1 Level, per J-STD-020, LF maximum peak of 260 $^{\circ}\mathrm{C}$
- Plastic package has Underwriters Laboratory Flammability 94V-0
- Matte Tin Lead-free plated



MECHANICAL DATA

Case: JEDEC DO-214AB. Molded plastic

Terminal: Solderable per MIL-STD-750, Method 2026 **Polarity:** Color band denoted positive end (cathode)

except Bidirectional

DEVICES FOR BIPOLAR APPLICATION

- For Bidirectional use C or CA Suffix for types SMCJ5.0 thru types SMCJ440 (e.g. SMCJ5.0A, SMCJ440CA)
- Electrical characteristics apply in both directions

MAXIMUM RATINGS (25°C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000µs waveform (Note 1, 2)	Рррм	1500	Watts
Peak Pulse Current of on 10/1000µs waveform(Note 1)	ІРРМ	See Next Table	Amps
Peak Forward Surge Current,8.3ms Single Half Sine-Wave(Note 2, 3)	IFSM	200	Amps
Operating junction and Storage Temperature Range	Тл Тѕтс	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	Rejl	15	°C/W
Typical Thermal Resistance Junction to Ambient	Reja	75	°C/W

Note

- (1) Non-repetitive current pulse above T_A = 25 °C
- (2) Mounted on 8.0mm x 8.0mm Copper Pads to each terminal



SMCJ5.0 thru SMCJ440

(3) 8.3ms single half sine-wave, or equivalent square wave, Duty cycle = 4 pulses per minutes maximum.

ELECTRICAL CHARACTERISTICS

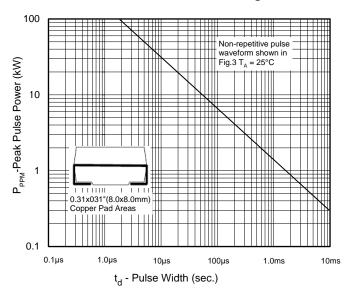
SMCJ80A SMCJ80CA GDE BDE 10 6.40 7.700 5.0 9.2 167.9 800.0		ART IBER BI-POLAR	MAR CO		TEST CURRENT IT (mA)	BREAK VOLT VBR(V	AGE	STAND- OFF VOLTAGE VRWM(V)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc(V)	MAXIMUM PEAK PULSE CURRENT Ipp (A)	MAXIMUM REVERSE LEAKAGE @ VRWM IR(µA)
SMCJ60A SMCJ60CA GDC BDG 10 6.67 7.37 6.0 10.3 150.0 800.0 SMCJ65A SMCJ65CA GDK BDK 10 7.22 7.98 6.5 11.2 137.9 500.0 SMCJ70A SMCJ70CA GDM BDM 10 7.78 8.60 7.0 12.0 12.8 200.0 SMCJ75A SMCJ75CA GDP BDP 1 8.33 9.21 7.5 12.9 119.8 100.0 SMCJ80A SMCJ80CA GDP BDP 1 8.33 9.81 8.0 13.6 113.6 50.0 SMCJ80A SMCJ80CA GDP BDP 1 8.38 9.83 8.0 13.6 113.6 50.0 SMCJ80A SMCJ80CA GDT BDT 1 9.44 10.40 8.5 14.4 107.3 20.0 SMCJ80A SMCJ80CA GDT BDT 1 9.44 10.40 8.5 14.4 107.3 20.0 SMCJ80A SMCJ80CA GDX BDV 1 10.00 11.10 9.0 15.4 100.3 10.0 SMCJ80A SMCJ80CA GDX BDV 1 10.00 11.10 9.0 15.4 100.3 10.0 SMCJ16A SMCJ16CA GDX BDX 1 11.10 12.00 11.0 17.0 90.9 5.5 SMCJ16A SMCJ16CA GEE BEE 1 13.30 14.70 12.0 19.9 77.6 10.0 SMCJ16A SMCJ16CA GEE BEE 1 14.40 15.90 13.0 21.5 71.9 1.0 SMCJ16A SMCJ16CA GEE BEE 1 14.40 15.90 13.0 21.5 71.9 1.0 SMCJ16A SMCJ16CA GEM BEM 1 16.70 18.50 13.0 21.5 71.9 1.0 SMCJ16A SMCJ16CA GEM BEM 1 16.70 18.50 15.0 24.4 63.3 1.0 SMCJ16A SMCJ16CA GEM BEM 1 16.70 18.50 15.0 24.4 63.3 1.0 SMCJ16A SMCJ16CA GEM BER 1 18.90 20.90 17.0 27.6 66.0 1.0 SMCJ16A SMCJ16CA GEM BER 1 18.90 20.90 17.0 27.6 66.0 1.0 SMCJ2CA SMCJ2CA GEX BER 1 18.90 20.90 17.0 27.6 66.0 1.0 SMCJ2CA GEX BER 1 18.90 20.90 17.0 27.6 66.0 1.0 SMCJ2CA GEX BEV 1 22.20 24.50 20.0 32.4 47.7 1.0 SMCJ2CA SMCJ2CA GEX BEV 1 22.20 24.50 20.0 32.4 47.7 1.0 SMCJ2CA SMCJ2CA GEX BEV 1 22.00 22.0 35.5 43.5 1.0 SMCJ2CA SMCJ2CA GEX BEV 1 22.00 23.0 35.5 43.5 1.0 SMCJ3GA SMCJ3GA GFW BFW 1 30.00 30.00 30.00 30.00 30.00 30.00					10			5.0	0.2		
SMCLJEGA SMCLG-GCA GDM BDM 10 7.22 7.98 6.5 11.2 137.9 500.0											
SMCJ7.0A											
SMCJ/56A SMCJ/56CA GDP BDP 1 8.33 9.21 7.5 12.9 119.8 100.0											
SMCJB-0A SMCJB-0CA GDR BDR 1 8.89 9.83 8.0 13.6 113.6 50.0											
SMCJJ8.5A SMCJ8.5CA GDT BDT 1 9.44 10.40 8.5 11.4 107.3 20.0 SMCJ9.0A SMCJ9.0CA GDV BDV 1 10.00 11.10 9.0 15.4 100.3 10.0 SMCJ10A SMCJ10CA GDX BDX 1 11.10 12.30 10.0 17.0 99.9 5.0 SMCJ11A SMCJ11CA GDZ BDZ 1 12.20 13.50 11.0 18.2 84.9 1.0 SMCJ12A SMCJ12CA GEE BEE 1 13.30 14.70 12.0 19.9 77.6 1.0 SMCJ13A SMCJ12CA GEE BEE 1 13.30 14.70 12.0 19.9 77.6 1.0 SMCJ13A SMCJ13CA GEG BEG 1 14.40 15.90 13.0 21.5 71.9 1.0 SMCJ14A SMCJ14CA GEK BEK 1 15.60 17.20 14.0 23.2 66.6 1.0 SMCJ15A SMCJ15CA GEM BEM 1 16.70 18.50 15.0 24.4 63.3 1.0 SMCJ15CA SMCJ16CA GEM BEM 1 16.70 18.50 15.0 24.4 63.3 1.0 SMCJ16CA SMCJ16CA GEP BEP 1 17.80 19.70 16.0 26.0 59.4 1.0 SMCJ17A SMCJ17CA GER BER 1 18.90 20.90 17.0 27.6 56.0 1.0 SMCJ16A SMCJ16CA GEP BEF 1 20.00 22.10 18.0 29.2 52.9 1.0 SMCJ2CA SMCJ2CA GEV BEV 1 22.20 24.50 20.0 32.4 47.7 1.0 SMCJ2AA SMCJ2CCA GEV BEV 1 22.40 29.0 20.0 32.4 47.7 1.0 SMCJ2AA SMCJ2CCA GEZ BEZ 1 26.70 29.50 24.0 38.9 39.7 1.0 SMCJ3CA SMCJ2CCA GEZ BEZ 1 26.70 29.50 24.0 38.9 39.7 1.0 SMCJ3CA SMCJ2CCA GFG BFG 1 31.10 34.40 28.0 42.1 36.7 1.0 SMCJ3CA SMCJ3CCA GFG BFG 1 31.10 34.40 28.0 42.1 36.7 1.0 SMCJ3CA SMCJ3CCA GFG BFG 1 31.10 34.40 28.0 42.1 36.7 1.0 SMCJ3GA SMCJ3CCA GFG BFG 1 31.10 34.40 28.0 48.4 31.9 1.0 SMCJ3GA SMCJ3CCA GFG BFG 1 31.10 34.40 28.0 48.4 31.9 1.0 SMCJ3GA SMCJ3CCA GFG BFF 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ3GA SMCJ3CCA GFG BFF 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ3GA SMCJ3CCA GFG BFF 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ3GA SMCJ3CCA GFG BFF 1 4											
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SMC_J14A SMC_J14CA GEK BEK 1 15.60 17.20 14.0 23.2 66.6 1.0					-						
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SMCJ16A					1						
SMCJ17A											
SMCJ18A SMCJ18CA GET BET 1 20.00 22.10 18.0 29.2 52.9 1.0 SMCJ20A SMCJ2CA GEV BEV 1 22.20 24.50 20.0 32.4 47.7 1.0 SMCJ2AA SMCJ2CAA GEX BEX 1 22.40 26.90 22.0 35.5 43.5 1.0 SMCJ2BA SMCJ2BCA GEE BEZ 1 26.70 29.50 24.0 38.9 39.7 1.0 SMCJ2BA SMCJ2BCA GEG BFG 1 28.90 31.90 26.0 42.1 36.7 1.0 SMCJ3BA SMCJ3GCA GFR BFK 1 33.30 36.80 30.0 48.4 31.9 1.0 SMCJ3BA SMCJ3GCA GFR BFR 1 43.00 43.0 69.1 22.0 1.0 SMCJ3BA SMCJ4GA GFR BFP 1 40.00 44.20 36.0 58.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
SMCJ20A SMCJ20CA GEV BEV 1 22.20 24.50 20.0 32.4 47.7 1.0 SMCJ22A SMCJ22CA GEX BEX 1 24.40 26.90 22.0 35.5 43.5 1.0 SMCJ24CA SMCJ24CA GEZ BEZ 1 26.70 29.50 24.0 38.9 39.7 1.0 SMCJ26CA GFE BFE 1 28.90 31.90 26.0 42.1 36.7 1.0 SMCJ28A SMCJ28CA GFG BFG 1 31.10 34.40 28.0 45.4 34.0 1.0 SMCJ30A SMCJ30CA GFK BFK 1 33.30 36.80 30.0 48.4 31.9 1.0 SMCJ30A SMCJ30CA GFK BFK 1 33.30 36.80 30.0 48.4 31.9 1.0 SMCJ36A SMCJ33CA GFM BFM 1 36.70 40.60 33.0 53.3 29.0 1.0 SMCJ36A SMCJ33CA GFM BFM 1 36.70 40.60 33.0 58.1 26.6 1.0 SMCJ40CA GFR BFR 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ46A SMCJ43CA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ46A SMCJ45CA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ46A SMCJ46CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ54A SMCJ46CA GFZ BFZ 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ56A SMCJ46CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ56A SMCJ56CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ56A SMCJ56CA GGE BGE 1 64.40 71.20 58.0 93.6 16.5 1.0 SMCJ56A SMCJ56CA GGR BGM 1 71.10 78.60 64.0 103.0 15.0 1.0 SMCJ56A SMCJ56CA GGR BGM 1 71.10 78.60 64.0 103.0 15.0 1.0 SMCJ56A SMCJ56CA GGR BGM 1 71.10 78.60 64.0 103.0 15.0 1.0 SMCJ56A SMCJ56CA GGR BGM 1 71.10 78.60 64.0 71.0 71.10 7					-						
SMCJ22A SMCJ22CA GEX BEX 1 24.40 26.90 22.0 35.5 43.5 1.0					1						
SMCJ26A SMCJ26CA GEZ BEZ 1 26.70 29.50 24.0 38.9 39.7 1.0		SMCJ20CA			1	22.20	24.50			47.7	1.0
SMCJ26A SMCJ26CA GFE BFE 1 28.90 31.90 26.0 42.1 36.7 1.0 SMCJ28A SMCJ28CA GFG BFG 1 31.10 34.40 28.0 48.4 34.0 1.0 34.0	SMCJ22A	SMCJ22CA			1	24.40	26.90				1.0
SMCJ28A SMCJ28CA GFG BFG 1 31.10 34.40 28.0 45.4 34.0 1.0 SMCJ30A SMCJ30CA GFK BFK 1 33.30 36.80 30.0 48.4 31.9 1.0 SMCJ33A SMCJ33CA GFM BFM 1 36.70 40.60 33.30 53.3 29.0 1.0 SMCJ36A SMCJ36CA GFP BFP 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ43A SMCJ43CA GFT BFT 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ45A SMCJ45CA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ45A SMCJ45CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ54A SMCJ54CA GGE BGE 1 56.70 62.70 51.0	SMCJ24A	SMCJ24CA	GEZ	BEZ	1	26.70	29.50	24.0		39.7	1.0
SMCJ30A SMCJ30CA GFK BFK 1 33.30 36.80 30.0 48.4 31.9 1.0 SMCJ36A SMCJ33CA GFM BFM 1 36.70 40.60 33.0 53.3 29.0 1.0 SMCJ36A SMCJ36CA GFP BFP 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ40A SMCJ43CA GFR BFR 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ45A SMCJ43CA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ4SA SMCJ4SCA GFV BFV 1 55.00 55.30 45.0 72.7 21.3 1.0 SMCJ4BA SMCJ4CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ5BA SMCJ5CA GGE BGE 1 60.00 70.0 11.0 <t< td=""><td>SMCJ26A</td><td>SMCJ26CA</td><td>GFE</td><td>BFE</td><td>1</td><td>28.90</td><td>31.90</td><td>26.0</td><td>42.1</td><td>36.7</td><td>1.0</td></t<>	SMCJ26A	SMCJ26CA	GFE	BFE	1	28.90	31.90	26.0	42.1	36.7	1.0
SMCJ33A SMCJ33CA GFM BFM 1 36,70 40,60 33.0 53.3 29.0 1.0 SMCJ30A SMCJ30CA GFP BFP 1 40,00 44.20 36.0 53.3 29.0 1.0 SMCJ40A SMCJ40CA GFR BFR 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ43A SMCJ43CA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ4SA SMCJ45CA GFV BFV 1 50.00 55.30 45.0 77.7 21.3 1.0 SMCJ4SA SMCJ4SCA GFV BFX 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ51A SMCJ5CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ5AA SMCJ5CA GGE BGE 1 60.00 66.30 54.0 <	SMCJ28A	SMCJ28CA	GFG	BFG	1	31.10	34.40	28.0	45.4	34.0	1.0
SMCJ36A SMCJ36CA GFP BFP 1 40.00 44.20 36.0 58.1 26.6 1.0 SMCJ40A SMCJ40CA GFR BFR 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ4SA SMCJ4SCA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ45A SMCJ4SCA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ4BA SMCJ4BCA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ51A SMCJ51CA GFZ BFZ 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ5BA SMCJ5BCA GGE BGE 1 66.70 73.70 60.0 98.8 16.5 1.0 SMCJ60A SMCJ6OCA GGR BGR 1 77.80 86.0 70.0	SMCJ30A	SMCJ30CA	GFK	BFK	1	33.30	36.80	30.0	48.4	31.9	1.0
SMCJ40A SMCJ40CA GFR BFR 1 44.40 49.10 40.0 64.5 24.0 1.0 SMCJ43A SMCJ4SCA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ4SA SMCJ4SCA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ48A SMCJ4CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ51A SMCJ54CA GFZ BFZ 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ58A SMCJ54CA GGE BGE 1 66.00 66.30 54.0 87.1 17.7 1.0 SMCJ58A SMCJ58CA GGG BGG 1 64.40 71.20 58.0 93.6 16.5 1.0 SMCJ60A SMCJ6CA GGK BGK 1 77.10 80.0 97.0 <t< td=""><td>SMCJ33A</td><td>SMCJ33CA</td><td>GFM</td><td>BFM</td><td>1</td><td>36.70</td><td>40.60</td><td>33.0</td><td>53.3</td><td>29.0</td><td>1.0</td></t<>	SMCJ33A	SMCJ33CA	GFM	BFM	1	36.70	40.60	33.0	53.3	29.0	1.0
SMCJ43A SMCJ43CA GFT BFT 1 47.80 52.80 43.0 69.4 22.3 1.0 SMCJ45A SMCJ45CA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ48A SMCJ4CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ51A SMCJ51CA GFZ BFZ 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ54A SMCJ5CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ5BA SMCJ5BCA GGG BGG 1 66.70 73.70 60.0 96.8 16.5 1.0 SMCJ5BA SMCJ6CA GGM BGM 1 71.10 78.60 64.0 103.0 15.0 1.0 SMCJ7OA SMCJ75CA GGR BGP 1 77.80 86.00 70.0 <	SMCJ36A	SMCJ36CA	GFP	BFP	1	40.00	44.20	36.0	58.1	26.6	1.0
SMCJ45A SMCJ45CA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ48A SMCJ48CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ51A SMCJ51CA GGE BGE 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ54A SMCJ54CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ5BA SMCJ6OCA GGK BGG 1 64.40 71.20 58.0 93.6 16.5 1.0 SMCJ60A SMCJ6OCA GGK BGK 1 66.70 73.70 60.0 96.8 16.5 1.0 SMCJ60A SMCJ6OCA GGR BGK 1 77.70 73.70 60.0 96.8 16.0 1.0 SMCJ6OCA GGR BGR 1 77.80 86.00 70.0 113.0 <	SMCJ40A	SMCJ40CA	GFR	BFR	1	44.40	49.10	40.0	64.5	24.0	1.0
SMCJ45A SMCJ45CA GFV BFV 1 50.00 55.30 45.0 72.7 21.3 1.0 SMCJ48A SMCJ48CA GFX BFX 1 53.30 58.90 48.0 77.4 20.0 1.0 SMCJ51A SMCJ51CA GGE BGE 1 56.70 62.70 51.0 82.4 18.8 1.0 SMCJ54A SMCJ54CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ5BA SMCJ6OCA GGK BGG 1 64.40 71.20 58.0 93.6 16.5 1.0 SMCJ60A SMCJ6OCA GGK BGK 1 66.70 73.70 60.0 96.8 16.5 1.0 SMCJ60A SMCJ6OCA GGR BGK 1 77.70 73.70 60.0 96.8 16.0 1.0 SMCJ6OCA GGR BGR 1 77.80 86.00 70.0 113.0 <	SMCJ43A	SMCJ43CA	GFT	BFT	1	47.80	52.80	43.0	69.4	22.3	1.0
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SMCJ54A SMCJ58CA GGE BGE 1 60.00 66.30 54.0 87.1 17.7 1.0 SMCJ58A SMCJ58CA GGG BGG 1 64.40 71.20 58.0 93.6 16.5 1.0 SMCJ6AA SMCJ6CA GGK BGK 1 66.70 73.70 60.0 96.8 16.0 1.0 SMCJ6AA SMCJ6CA GGM BGM 1 77.10 78.60 64.0 103.0 15.0 1.0 SMCJ70A SMCJ7CA GGP BGP 1 77.80 86.00 70.0 113.0 13.7 1.0 SMCJ75A SMCJ7SCA GGR BGR 1 83.30 92.10 75.0 121.0 12.8 1.0 SMCJ78A SMCJ78CA GGR BGT 1 86.70 95.80 78.0 121.0 12.8 1.0 SMCJ90A SMCJ8CA GGV BGV 1 94.40 104.00 85.0			GFZ	BFZ	1	56.70	62.70	51.0	82.4	18.8	1.0
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SMCJ400A SMCJ400CA GJK BJK 1 447.00 494.00 400.0 648.0 2.4 1.0											
	SMCJ440A	SMCJ440CA	GJM	BJM	1				713.0	2.4	1.0

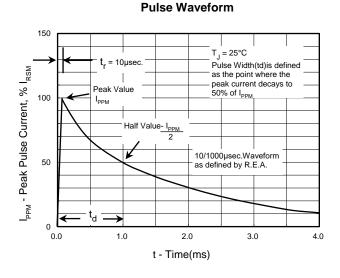
For bidirectional type having Vrwm of 10 volts and less, the IR limit is double.



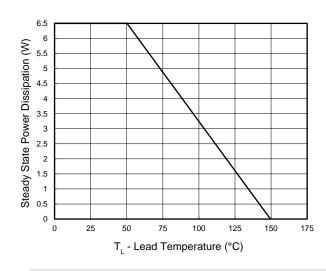
RATINGS AND CHARACTERISTICS CURVES (TA = 25°C unless otherwise noted)

Peak Pulse Power Rating

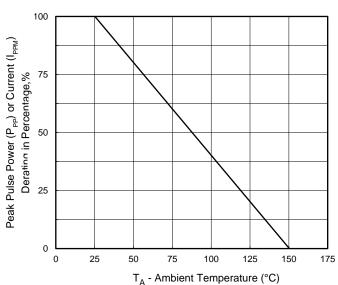




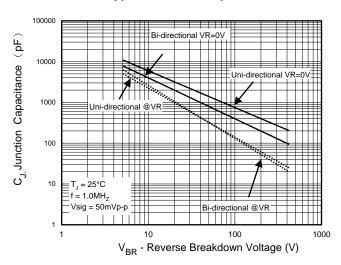
Steady State Power Derating Curve



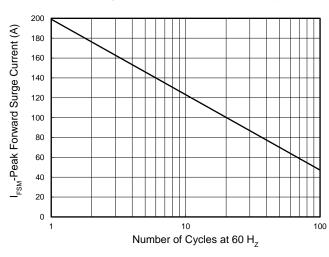
Pulse Derating Curve



Typical Junction Capacitance



Maximum Non-repetitive Forward Surge current uni-directional only



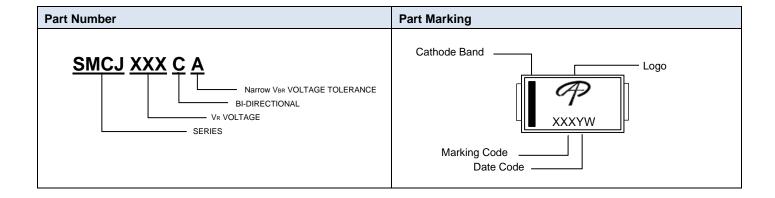
Ordering Information

Part Number	Quantity	Packing Option	Component Package	Packing Specification
SMCJxxxA	3000	Tape & Reel - 16mm/13" tape	DO-214AB	EIA STD RS-481



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Note: Green Product means Pb-free, RoHS and Halogens free compliant.



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