

Mfrs. List No.	Order Code	5+	25+	100+	500+	+
<b>600W Unidirectional</b>						
SMBJ5.0A.	167-125▲	22.00	21.00	17.00	--	--
SMBJ9.0A.	167-137▲	33.00	27.00	17.00	12.00	--
SMBJ12A.	167-149▲	33.00	27.00	17.00	12.00	--
SMBJ15A..	167-150▲	33.00	27.00	17.00	12.00	--
SMBJ16A.	167-162▲	33.00	27.00	17.00	12.00	--
SMBJ18A.	167-174▲	33.00	27.00	17.00	12.00	--
SMBJ18A.	984-3990●	33.00	27.00	17.00	12.00	--
SMBJ22A.	167-186▲	33.00	26.00	17.00	12.00	--
SMBJ24A.	167-198▲	33.00	27.00	17.00	12.00	--
SMBJ30A.	167-204▲	33.00	27.00	17.00	12.00	--
SMBJ30A.	984-4007●	33.00	27.00	17.00	12.00	--
SMBJ33A.	167-216▲	33.00	27.00	17.00	12.00	--
SMBJ33A.	984-4015●	33.00	27.00	17.00	12.00	--
SMBJ36A.	167-228▲	33.00	27.00	17.00	12.00	--
SMBJ36A.	984-4023●	33.00	27.00	17.00	12.00	--
<b>600W Bidirectional</b>						
SMBJ5.0CA.	167-230▲	35.00	29.00	18.00	13.00	--
SMBJ9.0CA.	167-241▲	41.00	34.00	22.00	15.00	--
SMBJ12CA.	167-253▲	41.00	34.00	22.00	15.00	--
SMBJ15CA.	167-265▲	41.00	34.00	22.00	15.00	--
SMBJ16CA..	167-277▲	41.00	34.00	22.00	15.00	--
SMBJ18CA.	167-289▲	41.00	34.00	22.00	15.00	--
SMBJ22CA.	167-290▲	41.00	34.00	22.00	15.00	--
SMBJ24CA.	167-307▲	41.00	34.00	22.00	15.00	--
SMBJ30CA.	167-319▲	41.00	34.00	22.00	15.00	--
SMBJ33CA.	167-320▲	42.00	34.00	22.00	15.00	--
SMBJ36CA..	167-332▲	41.00	34.00	22.00	15.00	--

Mfrs. List No.	Order Code	1+	25+	100+	500+	+
<b>1500W Bidirectional</b>						
SMCJ18CA	101-7851●	72.00	59.00	37.00	26.00	--
SMCJ22CA	101-7853●	75.00	61.00	39.00	27.00	--
SMCJ24CA	101-7854●	75.00	61.00	39.00	27.00	--
SMCJ30CA	101-7856●	75.00	61.00	39.00	27.00	--
SMCJ33CA	101-7859●	75.00	61.00	39.00	27.00	--
SMCJ36CA	101-7862●	75.00	61.00	39.00	27.00	--

1500W Transil™ Suppression Diodes



SMC  
H=2.62,  
W=8.23,  
D=6.22



Max Reverse Leakage Current μA	V <sub>br</sub> min. V	V <sub>clamp</sub> max. V @	Package Marking	Mfrs. List No.	
				Unidirectional (d.c.)	Bidirectional (a.c.)
500	6.4	9.2	BBZ	SMCJ5.0A	SMCJ5.0CA
1	6.67	10.3	BBA	SMCJ6.0A	SMCJ6.0CA
1	53.3	77.4	BBW/BBW	—	SMCJ48CA

419548

1500W Transient Voltage Suppression Diodes



- Glass passivated junction
- 1500W peak pulse power capability
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time

SMC H = 2.62, W = 8.23, D = 6.22

V <sub>rm</sub> Stand-off Voltage V	V <sub>br</sub> Breakdown Voltage V		V <sub>clamp</sub> max. V	I <sub>test</sub> mA	Max. Peak Pulse Current A	Max. Reverse Leakage Current μA	Package Marking*	Mfrs. List No.	
	Min. V	Max. V						Unidirectional (d.c.)	Bidirectional (a.c.)
<b>1500W Peak Pulse Power</b>									
5	6.4	7	10	9.2	163	1000	GDE	SMCJ5V0A	SMCJ5V0CA
6	6.67	7.37	10	10.3	145.6	1000	GDG	SMCJ6V0A	SMCJ6V0CA
7.5	8.33	9.21	1	12.9	116.3	100	GDP	SMCJ7V5A	SMCJ7V5CA
9	10	11.1	1	15.4	9.4	10	GDV	SMCJ9V0A	—
12	13.3	14.7	1	19.9	75.3	5	GEE	SMCJ12A	SMCJ12CA
15	16.7	18.5	1	24.4	61.5	5	GEM	SMCJ15A	SMCJ15CA
18	20	22.1	1	29.2	51.4	5	GET	SMCJ18A	SMCJ18CA
22	24.4	26.9	1	35.5	42.3	5	GEX	SMCJ22A	SMCJ22CA
24	26.7	29.5	1	38.9	38.6	5	GEZ	SMCJ24A	SMCJ24CA
30	33.3	36.8	1	48.4	31	5	GFK	SMCJ30A	SMCJ30CA
33	36.7	40.6	1	53.3	28.1	5	GFM	SMCJ33A	SMCJ33CA
36	40	44.2	1	58.1	25.8	5	GFP	SMCJ36A	SMCJ36CA

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Mfrs. List No.	Order Code	1+	25+	100+	500+	+
<b>1500W Unidirectional</b>						
SMCJ5.0A.	167-368▲	84.00	66.00	42.00	29.00	--
SMCJ36CA	101-7862●	75.00	61.00	39.00	27.00	--
SMCJ6.0A.	167-370▲	72.00	59.00	37.00	26.00	--
SMCJ6V0A	101-7865●	72.00	59.00	37.00	26.00	--
SMCJ7.5A.	167-381▲	72.00	59.00	37.00	26.00	--
SMCJ7V5A	101-7867●	72.00	59.00	37.00	26.00	--
SMCJ9.0A.	167-393▲	72.00	59.00	37.00	26.00	--
SMCJ9V0A	101-7869●	72.00	59.00	37.00	26.00	--
SMCJ12A.	167-400▲	71.00	58.00	36.00	25.00	--
SMCJ12A.	101-7845●	71.00	58.00	36.00	25.00	--
SMCJ15A.	167-411▲	73.00	58.00	36.00	25.00	--
SMCJ15A.	101-7848●	73.00	58.00	36.00	25.00	--
SMCJ18A.	167-423▲	71.00	58.00	36.00	25.00	--
SMCJ18A.	101-7850●	71.00	58.00	36.00	25.00	--
SMCJ22A.	167-435▲	74.00	60.00	38.00	26.00	--
SMCJ22A.	101-7852●	74.00	60.00	38.00	26.00	--
SMCJ24A.	167-447▲	72.00	59.00	37.00	26.00	--
SMCJ24A.	984-4031●	72.00	59.00	37.00	26.00	--
SMCJ30A..	167-459▲	72.00	59.00	37.00	26.00	--
SMCJ30A.	101-7855●	72.00	59.00	37.00	26.00	--
SMCJ33A.	167-460▲	72.00	59.00	37.00	26.00	--
SMCJ33A.	101-7857●	72.00	59.00	37.00	26.00	--
SMCJ36A.	167-472▲	72.00	59.00	37.00	26.00	--
SMCJ36A.	101-7861●	72.00	59.00	37.00	26.00	--
<b>1500W Bidirectional</b>						
SMCJ5V0CA	101-7864●	90.00	72.00	45.00	32.00	--
SMCJ6V0CA	101-7866●	73.00	58.00	37.00	--	--
SMCJ7V5CA	101-7868●	71.00	57.00	36.00	--	--
SMCJ12CA	101-7847●	75.00	61.00	39.00	27.00	--
SMCJ15CA	101-7849●	66.00	54.00	34.00	24.00	--

Transient Voltage Suppressors



600W: A=2.11 B=4.57 C=3.94  
1500W: A=3.15 B=7.11 C=6.22



- Silicon surface mount transient voltage suppressors
- Low profile package
- Excellent clamping capability
- Fast response time
- Glass passivated junction
- High temperature soldering 250°C/10 seconds at terminals
- Plastic package has flammability rating **UL94V-0**

Stand-Off Voltage V <sub>rm</sub> V	V <sub>br</sub> V	V <sub>clamp</sub> V	I <sub>test</sub> mA	Peak Pulse Current A	Device Marking Code	Mfrs. List No.
<b>600W Unidirectional</b>						
5	6.4 - 7.25	9.2	10	65.2	KE	P6SMBJ5.0A
7.5	8.33 - 9.58	12.9	1	46.5	KP	P6SMBJ7.5A
12	13.3 - 15.3	19.9	1	30.2	LE	P6SMBJ12A
15	16.7 - 19.2	24.4	1	24	LM	P6SMBJ15A
24	26.7 - 30.7	38.9	1	15.4	LZ	P6SMBJ24A
30	33.3 - 38.3	48.4	1	12.4	MK	P6SMBJ30A
<b>1500W Unidirectional</b>						
5	6.4 - 7.25	9.2	10	163	GDE	1.5SMCJ5.0A.
6	6.67 - 7.67	10.3	10	145.6	GDG	1.5SMCJ6.0A.
9	10 - 11.5	15.4	1	97.4	GDV	1.5SMCJ9.0A.
12	13.3 - 15.3	19.9	1	75.3	GEE	1.5SMCJ12A.
15	16.7 - 19.2	24.4	1	61.5	GEM	1.5SMCJ15A.
22	24.4 - 28	35.5	1	42.2	GEX	1.5SMCJ22A.
33	36.7 - 42.2	53.3	1	28.1	GFM	1.5SMCJ33A.
48	53.3 - 61.3	77.4	1	19.4	GFX	1.5SMCJ48A.
<b>600W Bidirectional</b>						
5	6.4 - 7.25	9.2	10	65.2	AE	P6SMBJ5.0CA
7.5	8.33 - 9.58	12.9	1	46.5	AP	P6SMBJ7.5CA
12	13.3 - 15.3	19.9	1	30.2	BE	P6SMBJ12CA
15	16.7 - 19.2	24.4	1	24	BM	P6SMBJ15CA
24	26.7 - 30.7	38.9	1	15.4	BZ	P6SMBJ24CA
30	33.3 - 38.3	48.4	1	12.4	CK	P6SMBJ30CA
<b>1500W Bidirectional</b>						
5	6.4 - 7.25	9.2	10	163	BDE	1.5SMCJ5.0CA.
6	6.67 - 7.67	10.3	10	145.6	BDG	1.5SMCJ6.0CA.
9	10 - 11.5	15.4	1	97.4	BDV	1.5SMCJ9.0CA.
12	13.3 - 15.3	19.9	1	75.3	BEE	1.5SMCJ12CA.
15	16.7 - 19.2	24.4	1	61.5	BEM	1.5SMCJ15CA.
22	24.4 - 28	35.5	1	42.2	BEX	1.5SMCJ22CA.
33	36.7 - 42.2	53.3	1	28.1	BFM	1.5SMCJ33CA.
48	53.3 - 61.3	77.4	1	19.4	BFX	1.5SMCJ48CA.

Semiconductors - Discretes

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Compliant  
Non-compliant  
RoHS  
+ Limited stock - RoHS replacement available