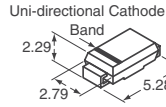




SMAJ Series – 400 Watt TVS Diode DO-214AC (SMA) Package

- FEATURES:**
- Glass passivated junction
 - J lead construction
- SPECIFICATIONS:**
- **Voltage Tolerance:** 5%
 - **Operating Temperature:** -65°C – 150°C
 - **High Temperature Soldering:** 260°C for 40 seconds at terminals
 - **Plastic Package:** UL94V-0
 - **Case:** JEDEC DO-214AC
 - **Electrical Specification:** Tested at 25°C



Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing 5,000±
			1	10	100	
Uni-directional	5.0 – 200	SMAJ(Value)ALFCT-ND	2.98	26.95	226.83	1020.24/M
	220 – 440	SMAJ(Value)ALFCT-ND	4.08	37.83	318.06	1428.34/M
Bi-directional	5.0 – 51	SMAJ(Value)CALFCT-ND	3.23	29.93	251.49	1130.77/M
	54 – 440	SMAJ(Value)CALFCT-ND	4.59	41.91	352.58	1581.38/M

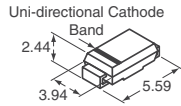
† For Tape and Reel part number, change CT-ND to TR-ND.
 Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)
5.0	5.0	6.40 7.00	800
6.0	6.0	6.67 7.37	800
6.5	6.5	7.22 7.98	500
7.0	7.0	7.78 8.60	200
7.5	7.5	8.33 9.21	100
8.0	8.0	8.89 9.83	50
8.5	8.5	9.44 10.40	20
9.0	9.0	10.00 11.10	10
10	10.0	11.10 12.30	5
11	11.0	12.20 13.50	1
12	12.0	13.30 14.70	1
13	13.0	14.40 15.90	1
14	14.0	15.60 17.20	1
15	15.0	16.70 18.50	1
16	16.0	17.90 19.70	1
17	17.0	18.90 20.90	1
18	18.0	20.00 22.10	1
20	20.0	22.20 24.50	1
22	22.0	24.40 26.90	1
24	24.0	26.70 29.50	1
26	26.0	28.90 31.90	1
28	28.0	31.10 34.40	1
30	30.0	33.30 36.80	1
33	33.0	36.70 40.60	1
36	36.0	40.00 44.20	1
40	40.0	44.40 49.10	1
45	45.0	50.00 55.30	1

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)
48	48.0	53.30 58.90	1
51	51.0	56.70 62.70	1
54	54.0	60.00 66.30	1
58	58.0	64.40 71.20	1
60	60.0	66.70 73.70	1
64	64.0	71.10 78.60	1
70	70.0	77.80 86.00	1
75	75.0	83.30 92.10	1
78	78.0	86.70 95.80	1
85	85.0	94.40 104.00	1
90	90.0	100.00 111.00	1
100	100.0	111.00 123.00	1
110	110.0	122.00 135.00	1
120	120.0	133.00 147.00	1
130	130.0	144.00 159.00	1
150	150.0	167.00 185.00	1
160	160.0	178.00 197.00	1
170	170.0	189.00 209.00	1
180	180.0	201.00 222.00	1
200	200.0	224.00 247.00	1
220	220.0	246.00 272.00	1
250	250.0	279.00 309.00	1
300	300.0	335.00 371.00	1
350	350.0	391.00 432.00	1
400	400.0	447.00 494.00	1
440	440.0	492.00 543.00	1

SACB Series – 500 Watt TVS Diode DO-214AA (SMB) Package

- FEATURES:**
- Glass passivated chip junction
 - J Lead construction
 - Very low junction capacitance maximum of 45pF
 - High temperature soldering: 260°C/40 seconds at terminals
- SPECIFICATIONS:**
- **Operating Junction and Storage Temperature Range:** -65°C – 150°C
 - **Electrical specification:** Tested @ 25°C



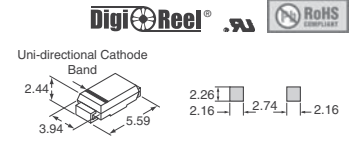
(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Max. Reverse Leakage I _R @ V _R (µA)
5.0	SKE	5.0	7.60 10.0	300
12	SLE	12.0	13.30 19.0	5



Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-directional	5.0 – 12	SACB(Value)CT-ND	4.68 43.11 362.44	SACB(Value)TR-ND	1708.91/M

SMBJ, P6SMB and P6SMBJ Series – 600 Watt TVS Diode DO-214AA (SMB) Package

- FEATURES:**
- Glass passivated junction
 - J lead construction
- SPECIFICATIONS:**
- **Voltage Tolerance:** 5%
 - **Operating Temperature:** -65°C – 150°C (SMBJ and P6SMB Series); -55°C – 150°C (P6SMBJ Series)
 - **High Temperature Soldering:** 260°C for 40 seconds at terminals (SMBJ and P6SMB Series); 250°C for 10 seconds at terminals (P6SMBJ Series)
 - **Electrical Specification:** Tested at 25°C



SMBJ Series							
(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)
5.0	5.0	6.40 7.00	800	45	45.0	50.00 55.30	1
6.0	6.0	6.67 7.37	800	48	48.0	53.30 58.90	1
6.5	6.5	7.22 7.98	500	51	51.0	56.70 62.70	1
7.0	7.0	7.78 8.60	200	54	54.0	60.00 66.30	1
7.5	7.5	8.33 9.21	100	58	58.0	64.40 71.20	1
8.0	8.0	8.89 9.83	50	60	60.0	66.70 73.70	1
8.5	8.5	9.44 10.40	20	64	64.0	71.10 78.60	1
9.0	9.0	10.00 11.10	10	70	70.0	77.80 86.00	1
10	10.0	11.10 12.30	5	75	75.0	83.30 92.10	1
11	11.0	12.20 13.50	1	78	78.0	86.70 95.80	1
12	12.0	13.30 14.70	1	85	85.0	94.40 104.00	1
13	13.0	14.40 15.90	1	90	90.0	100.00 111.00	1
14	14.0	15.60 17.20	1	100	100.0	111.00 123.00	1
15	15.0	16.70 18.50	1	110	110.0	122.00 135.00	1
16	16.0	17.80 19.70	1	120	120.0	133.00 147.00	1
17	17.0	18.90 20.90	1	130	130.0	144.00 159.00	1
18	18.0	20.00 22.10	1	150	150.0	167.00 185.00	1
20	20.0	22.20 24.50	1	160	160.0	178.00 197.00	1
22	22.0	24.40 26.90	1	170	170.0	189.00 209.00	1
24	24.0	26.70 29.50	1	180	180.0	201.00 222.00	1
26	26.0	28.90 31.90	1	200	200.0	224.00 247.00	1
28	28.0	31.10 34.40	1	220	220.0	246.00 272.00	1
30	30.0	33.30 36.80	1	220	220.0	246.00 272.00	1
33	33.0	36.70 40.60	1	300	300.0	335.00 371.00	1
36	36.0	40.00 44.20	1	350	350.0	391.00 432.00	1
40	40.0	44.40 49.10	1	400	400.0	447.00 494.00	1
43	43.0	47.80 52.80	1	440	440.0	492.00 543.00	1

P6SMB and P6SMBJ Series							
(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min. Max.	Maximum Reverse Leakage I _R @ V _R (µA)
6.8	5.80	6.45 7.14	1000	68	58.10	64.60 71.40	1‡
7.5	6.40	7.13 7.88	500	75	64.10	71.30 78.80	1‡
8.2	7.02	7.79 8.61	200	82	70.10	77.90 86.10	1‡
9.1	7.78	8.65 9.55	50	91	77.80	86.50 95.50	1‡
10	8.55	9.50 10.50	10	100	85.50	95.00 105.00	1‡
11	9.40	10.50 11.60	5	110†	94.00	105.00 116.00	1‡
12	10.20	11.40 12.60	5	120†	102.00	114.00 126.00	1‡
13	11.10	12.40 13.70	1‡	130	111.00	124.00 137.00	1‡
15	12.80	14.30 15.80	1‡	150	128.00	143.00 158.00	1‡
16	13.60	15.20 16.80	1‡	160†	136.00	152.00 168.00	1‡
18	15.30	17.10 18.90	1‡	170†	145.00	162.00 179.00	1‡
20	17.10	19.00 21.00	1‡	180	154.00	171.00 189.00	1‡
22	18.80	20.90 23.10	1‡	200	171.00	190.00 210.00	1‡
24	20.50	22.80 25.20	1‡	220	185.00	209.00 231.00	1‡
27	23.10	25.70 28.40	1‡	250	214.00	237.00 263.00	1‡
30	25.60	28.50 31.50	1‡	300	256.00	285.00 315.00	1‡
33	28.20	31.40 34.70	1‡	350	300.00	332.00 368.00	1‡
36	30.80	34.20 37.80	1‡	400	342.00	380.00 420.00	1‡
39	33.30	37.10 41.00	1‡	440	376.00	418.00 462.00	1‡
43	36.80	40.90 45.20	1‡	480	408.00	456.00 504.00	1‡
47	40.20	44.70 49.40	1‡	510	434.00	485.00 535.00	1‡
51	43.60	48.50 53.60	1‡	530†	459.00	513.00 567.00	1‡
56	47.80	53.20 58.80	1‡	540†	477.00	530.50 586.50	1‡
62	53.00	58.90 65.10	1‡	550	495.00	552.50 617.50	1‡

Series	Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 3,000
				1	10	100		
SMBJ	Uni-directional TVS	5.0 – 200	SMBJ(Value)ALFCT-ND	3.15	28.74	241.63	SMBJ(Value)ALFTR-ND	1139.27/M
	Bi-directional TVS	220 – 440	SMBJ(Value)ALFCT-ND	7.57	69.55	584.34	SMBJ(Value)ALFTR-ND	2763.15/M
P6SMB	Uni-directional TVS	5.0 – 200	SMBJ(Value)CALFCT-ND	3.49	31.71	266.28	SMBJ(Value)CALFTR-ND	1258.30/M
	Bi-directional TVS	220 – 440	SMBJ(Value)CALFCT-ND	7.57	69.55	584.34	SMBJ(Value)CALFTR-ND	2763.15/M
P6SMBJ	Uni-directional TVS	6.8 – 200	P6SMB(Value)ALFCT-ND	3.15	28.74	241.63	P6SMB(Value)ALFTR-ND	1139.27/M
	Bi-directional TVS	220 – 550	P6SMB(Value)ALFCT-ND	4.34	39.87	335.32	P6SMB(Value)ALFTR-ND	1581.38/M
P6SMBJ	Uni-directional TVS	6.8 – 200	P6SMB(Value)CALFCT-ND	3.49	31.71	266.28	P6SMB(Value)CALFTR-ND	1258.30/M
	Bi-directional TVS	220 – 550	P6SMB(Value)CALFCT-ND	4.85	44.30	372.30	P6SMB(Value)CALFTR-ND	1759.92/M
P6SMBJ	Uni-directional TVS	7.5 – 200	P6SMBJ(Value)ALFCT-ND	3.15	28.74	241.63	P6SMBJ(Value)ALFTR-ND	1079.76/M
	Bi-directional TVS	220 – 550	P6SMBJ(Value)ALFCT-ND	4.34	39.87	335.32	P6SMBJ(Value)ALFTR-ND	1513.36/M
P6SMBJ	Uni-directional TVS	6.8 – 200	P6SMBJ(Value)CALFCT-ND	3.49	31.71	266.28	P6SMBJ(Value)CALFTR-ND	1198.79/M
	Bi-directional TVS	220 – 550	P6SMBJ(Value)CALFCT-ND	4.85	44.30	372.30	P6SMBJ(Value)CALFTR-ND	1674.90/M

† Values not stocked by Digi-Key in the P6SMB series. ‡ 5µA for P6SMBJ Series. Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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