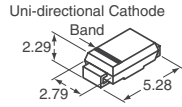




SMAJ Series – 400 Watt TVS Diode DO-214AC (SMA) Package

- 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



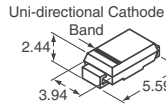
Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing 5,000±
			1	10	100	
Uni-directional	5.0 - 200	SMAJ(Value)ALFCT-ND	.35	3.17	26.68	120.00/M
	220 - 440	SMAJ(Value)ALFCT-ND	.48	4.45	37.41	168.00/M
Bi-directional	5.0 - 51	SMAJ(Value)CALFCT-ND	.38	3.52	29.58	133.00/M
	54 - 440	SMAJ(Value)CALFCT-ND	.54	4.93	41.47	186.00/M

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

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Maximum Reverse Leakage IR @ VR (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Maximum Reverse Leakage IR @ VR (µA)
5.0	5.0	6.40 7.00	800	48	48.0	53.30 58.90	1
6.0	6.0	6.67 7.37	800	51	51.0	56.70 62.70	1
6.5	6.5	7.22 7.98	500	54	54.0	60.00 66.30	1
7.0	7.0	7.78 8.60	200	58	58.0	64.40 71.20	1
7.5	7.5	8.33 9.21	100	60	60.0	66.70 73.70	1
8.0	8.0	8.89 9.83	50	64	64.0	71.10 78.60	1
8.5	8.5	9.44 10.40	20	70	70.0	77.80 86.00	1
9.0	9.0	10.00 11.10	10	75	75.0	83.30 92.10	1
10	10.0	11.10 12.30	5	78	78.0	86.70 95.80	1
11	11.0	12.20 13.50	1	85	85.0	94.40 104.00	1
12	12.0	13.30 14.70	1	90	90.0	100.00 111.00	1
13	13.0	14.40 15.90	1	100	100.0	111.00 123.00	1
14	14.0	15.60 17.20	1	110	110.0	122.00 135.00	1
15	15.0	16.70 18.50	1	120	120.0	133.00 147.00	1
16	16.0	17.90 19.70	1	130	130.0	144.00 159.00	1
17	17.0	18.90 20.90	1	150	150.0	167.00 185.00	1
18	18.0	20.00 22.10	1	160	160.0	178.00 197.00	1
20	20.0	22.20 24.50	1	170	170.0	189.00 209.00	1
22	22.0	24.40 26.90	1	180	180.0	201.00 222.00	1
24	24.0	26.70 29.50	1	200	200.0	224.00 247.00	1
26	26.0	28.90 31.90	1	220	220.0	246.00 272.00	1
28	28.0	31.10 34.40	1	250	250.0	279.00 309.00	1
30	30.0	33.30 36.80	1	300	300.0	335.00 371.00	1
33	33.0	36.70 40.60	1	350	350.0	391.00 432.00	1
36	36.0	40.00 44.20	1	400	400.0	447.00 494.00	1
40	40.0	44.40 49.10	1	440	440.0	492.00 543.00	1
45	45.0	50.00 55.30	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

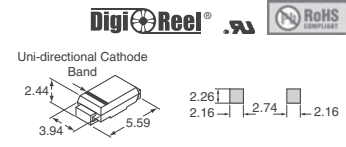


(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Max. Reverse Leakage IR @ VR (µA)
5.0	SKE	5.0	7.60 10.0	300
12	SLE	12.0	13.30 19.0	5

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-directional	5.0 - 12	SACB(Value)CT-ND	.55	5.07	42.63	SACB(Value)TR-ND	201.00/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						P6SMB and P6SMBJ Series					
(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Maximum Reverse Leakage IR @ VR (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Maximum Reverse Leakage IR @ VR (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT Min. Max.	Maximum Reverse Leakage IR @ VR (µA)
5.0	5.0	6.40 7.00	800	45	45.0	50.00 55.30	1	6.8	5.80	6.45 7.14	1000
6.0	6.0	6.67 7.37	800	48	48.0	53.30 58.90	1	7.5	6.40	7.13 7.88	500
6.5	6.5	7.22 7.98	500	51	51.0	56.70 62.70	1	8.2	7.02	7.79 8.61	200
7.0	7.0	7.78 8.60	200	54	54.0	60.00 66.30	1	9.1	7.78	8.65 9.55	50
7.5	7.5	8.33 9.21	100	58	58.0	64.40 71.20	1	10	8.55	9.50 10.50	10
8.0	8.0	8.89 9.83	50	60	60.0	66.70 73.70	1	11	9.40	10.50 11.60	5
8.5	8.5	9.44 10.40	20	64	64.0	71.10 78.60	1	12	10.20	11.40 12.60	5
9.0	9.0	10.00 11.10	10	70	70.0	77.80 86.00	1	13	11.10	12.40 13.70	1‡
10	10.0	11.10 12.30	5	75	75.0	83.30 92.10	1	15	12.80	14.30 15.80	1‡
11	11.0	12.20 13.50	1	78	78.0	86.70 95.80	1	16	13.60	15.20 16.80	1‡
12	12.0	13.30 14.70	1	85	85.0	94.40 104.00	1	18	15.30	17.10 18.90	1‡
13	13.0	14.40 15.90	1	90	90.0	100.00 111.00	1	20	17.10	19.00 21.00	1‡
14	14.0	15.60 17.20	1	100	100.0	111.00 123.00	1	22	18.80	20.90 23.10	1‡
15	15.0	16.70 18.50	1	110	110.0	122.00 135.00	1	24	20.50	22.80 25.20	1‡
16	16.0	17.80 19.70	1	120	120.0	133.00 147.00	1	27	23.10	25.70 28.40	1‡
17	17.0	18.90 20.90	1	130	130.0	144.00 159.00	1	30	25.60	28.50 31.50	1‡
18	18.0	20.00 22.10	1	150	150.0	167.00 185.00	1	33	28.20	31.40 34.70	1‡
20	20.0	22.20 24.50	1	160	160.0	178.00 197.00	1	36	30.80	34.20 37.80	1‡
22	22.0	24.40 26.90	1	170	170.0	189.00 209.00	1	39	33.30	37.10 41.00	1‡
24	24.0	26.70 29.50	1	180	180.0	201.00 222.00	1	43	36.80	40.90 45.20	1‡
26	26.0	28.90 31.90	1	200	200.0	224.00 247.00	1	44	40.20	44.70 49.40	1‡
28	28.0	31.10 34.40	1	220	220.0	246.00 272.00	1	51	43.60	48.50 53.60	1‡
30	30.0	33.30 36.80	1	300	300.0	335.00 371.00	1	56	47.80	53.20 58.80	1‡
33	33.0	36.70 40.60	1	350	350.0	391.00 432.00	1	62	53.00	58.90 65.10	1‡
36	36.0	40.00 44.20	1	400	400.0	447.00 494.00	1				
40	40.0	44.40 49.10	1	440	440.0	492.00 543.00	1				
43	43.0	47.80 52.80	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)ALFTR-ND	.37	3.38	28.42	SMBJ(Value)ALFTR-ND	134.00/M
	Bi-directional TVS	220 - 440	SMBJ(Value)ALFTR-ND	.89	8.18	68.73	SMBJ(Value)ALFTR-ND	325.00/M
P6SMB	Uni-directional TVS	5.0 - 200	SMBJ(Value)CALFTR-ND	.41	3.73	31.32	SMBJ(Value)CALFTR-ND	148.00/M
	Bi-directional TVS	220 - 440	SMBJ(Value)CALFTR-ND	.89	8.18	68.73	SMBJ(Value)CALFTR-ND	325.00/M
P6SMBJ	Uni-directional TVS	6.8 - 200	P6SMB(Value)ALFTR-ND	.37	3.38	28.42	P6SMB(Value)ALFTR-ND	134.00/M
	Bi-directional TVS	220 - 550	P6SMB(Value)ALFTR-ND	.51	4.69	39.44	P6SMB(Value)ALFTR-ND	186.00/M
P6SMBJ	Uni-directional TVS	6.8 - 200	P6SMB(Value)CALFTR-ND	.41	3.73	31.32	P6SMB(Value)CALFTR-ND	148.00/M
	Bi-directional TVS	220 - 550	P6SMB(Value)CALFTR-ND	.57	5.21	43.79	P6SMB(Value)CALFTR-ND	207.00/M
P6SMBJ	Uni-directional TVS	7.5 - 200	P6SMBJ(Value)ALFTR-ND	.37	3.38	28.42	P6SMBJ(Value)ALFTR-ND	127.00/M
	Bi-directional TVS	220 - 550	P6SMBJ(Value)ALFTR-ND	.51	4.69	39.44	P6SMBJ(Value)ALFTR-ND	178.00/M
P6SMBJ	Uni-directional TVS	6.8 - 200	P6SMBJ(Value)CALFTR-ND	.41	3.73	31.32	P6SMBJ(Value)CALFTR-ND	141.00/M
	Bi-directional TVS	220 - 550	P6SMBJ(Value)CALFTR-ND	.57	5.21	43.79	P6SMBJ(Value)CALFTR-ND	197.00/M

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