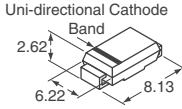




1500 Watt TVS Diode DO-214AB (SMC) Package — SMCJ Series



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
- Electrical Specification: Tested at 25°C

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
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



(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
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	11.10	12.30	5
11	11	12.20	13.50	1
12▲	12	13.30	14.70	1
13▲	13	14.40	15.90	1
14▲	14	15.60	17.20	1
15▲	15	16.70	18.50	1
16▲	16	17.80	19.70	1
17	17	18.90	20.90	1
18▲	18	20.00	22.10	1
20▲	20	22.20	24.50	1
22▲	22	24.40	26.90	1
24▲	24	26.70	29.50	1
26▲	26	28.90	31.90	1
28▲	28	31.10	34.40	1
30▲	30	33.30	36.80	1
33▲	33	36.70	40.60	1
36▲	36	40.00	44.20	1
40▲	40	44.40	49.10	1
45▲	45	50.00	55.30	1
48▲	48	53.30	58.90	1

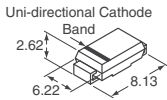
(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
51▲	51.0	56.70	62.70	1
54▲	54.0	60.00	66.30	1
58▲	58.0	64.40	71.20	1
60▲	60.0	68.70	73.70	1
64	64.0	71.10	78.60	1
70▲	70.0	77.80	86.00	1
75▲	75.0	83.30	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

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		
Uni-directional	5.0 ~ 200	SMCJ(Value)ALFCT-ND	1.06	9.15	72.23	SMCJ(Value)ALFTR-ND	349.19/M
	220 ~ 440	SMCJ(Value)ALFCT-ND	1.49	12.84	101.38	SMCJ(Value)ALFTR-ND	489.99/M
Bi-directional	5.0 ~ 8.0, 9.0 ~ 10, 12 ~ 200	SMCJ(Value)CALFCT-ND	1.15	10.01	78.99	SMCJ(Value)CALFTR-ND	381.57/M
	220 ~ 440	SMCJ(Value)CALFCT-ND	1.41	12.55	99.60	SMCJ(Value)CALFTR-ND	516.74/M

† For complete part number, substitute (Value) from the Value Chart. **Note:** Bidirectional type having Vr of 10V and less, the Ir limit is double.

‡ SMCJ-A-KIT-ND 36 values, 5 each of parts indicated (180 pieces) 90.73 ▲ SMCJ-CA-KIT-ND 36 values, 5 each of parts indicated (180 pieces) 95.29

1500 Watt TVS Diode DO-214AB (SMC) Package — 1.5SMC Series



FEATURES:

- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:

- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%
- Electrical specification tested at 25°C



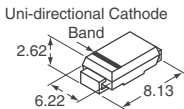
(Value) Nominal Breakdown Voltage	Marking Code		Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
	Uni	Bi		Min.	Max.	
6.8	6V8A	6V8C	5.80	6.45	7.14	1000
12	12A	12C	10.20	11.40	12.60	5
24	24A	24C	20.50	22.80	25.20	1
27	27A	27C	23.10	25.70	28.40	1
33	33A	33C	28.20	31.40	34.70	1
36	36A	36C	30.80	34.20	37.80	1
39	39A	39C	33.30	37.10	41.00	1

(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
			Min.	Max.	
45▲	PFV DFV	45.0	50.00	55.30	2
48▲	PFX DFZ	48.0	53.30	58.90	2
51▲	PFZ DFZ	51.0	56.70	62.70	2
54▲	RGE DGE	54.0	60.00	66.30	2
58▲	PGG DGG	58.0	64.40	71.20	2
60▲	PGK DGM	60.0	66.70	73.70	2
64▲	PGM DGM	64.0	71.10	78.60	2
70▲	PGP DGP	70.0	77.80	86.00	2
75▲	PGR DGR	75.0	83.30	92.10	2
78	PGT DGT	78.0	86.70	95.80	2
85	PGV DGV	85.0	94.40	104.00	2
90▲	PGX DGX	90.0	100.00	111.00	2

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		
Uni-directional	6.8 ~ 39	1.5SMC(Value)ACT-ND	1.06	9.15	72.23	1.5SMC(Value)ATR-ND	349.19/M
Bi-directional	6.8 ~ 39	1.5SMC(Value)CACT-ND	1.15	10.01	78.99	1.5SMC(Value)CATR-ND	381.57/M

† For complete part number, substitute (Value) from the Value Chart. **Note:** Bidirectional type having Vr of 10V and less, the Ir limit is double.

3000 Watt TVS Diode DO-214AB (SMC) Package — SMDJ Series



FEATURES:

- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:

- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%



(Value) Nominal Breakdown Voltage	Marking Code		Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
	Uni	Bi		Min.	Max.	
10▲	PDX DDX	10.0	11.10	12.30	5	
12▲	PEE DEE	12.0	13.30	14.70	2	
15▲	PEM DEM	15.0	16.70	18.50	2	
17	PER DER	17.0	18.90	20.90	2	
18▲	PET DET	18.0	20.00	22.10	2	
20	PEV DEV	20.0	22.20	24.50	2	
24▲	PEZ DEZ	24.0	26.70	29.50	2	
28▲	PEZ DFG	28.0	31.10	34.40	2	
30▲	PFK DFK	30.0	33.30	36.80	2	
33▲	PFM DFM	33.0	36.70	40.60	2	
36▲	PFV DFP	36.0	40.00	44.20	2	
40▲	PFR DFR	40.0	44.40	49.10	2	
43▲	PFT DFT	43.0	47.80	52.80	2	

(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
			Min.	Max.	
45▲	PFV DFV	45.0	50.00	55.30	2
48▲	PFX DFZ	48.0	53.30	58.90	2
51▲	PFZ DFZ	51.0	56.70	62.70	2
54▲	RGE DGE	54.0	60.00	66.30	2
58▲	PGG DGG	58.0	64.40	71.20	2
60▲	PGK DGM	60.0	66.70	73.70	2
64▲	PGM DGM	64.0	71.10	78.60	2
70▲	PGP DGP	70.0	77.80	86.00	2
75▲	PGR DGR	75.0	83.30	92.10	2
78	PGT DGT	78.0	86.70	95.80	2
85	PGV DGV	85.0	94.40	104.00	2
90▲	PGX DGX	90.0	100.00	111.00	2

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		
Uni-directional	10 ~ 40	SMDJ(Value)ACT-ND	1.49	13.36	106.06	SMDJ(Value)ATR-ND	550.53/M
	43 ~ 90	SMDJ(Value)ACT-ND	1.75	15.60	123.93	SMDJ(Value)ATR-ND	642.05/M
Bi-directional	10 ~ 17	SMDJ(Value)CACT-ND	1.61	14.40	114.43	SMDJ(Value)CATR-ND	592.77/M
	18 ~ 43	SMDJ(Value)CACT-ND	1.91	17.09	135.72	SMDJ(Value)CATR-ND	704.00/M
	45 ~ 90	SMDJ(Value)CACT-ND	2.79	23.87	194.91	SMDJ(Value)CATR-ND	1074.31/M

† For complete part number, substitute (Value) from the Value Chart. **Note:** Bidirectional type having Vr of 10V and less, the Ir limit is double.

‡ SMDJ-A-KIT-ND 18 values, 5 each of parts indicated (90 pieces) 110.06 ▲ SMDJ-CA-KIT-ND 18 values, 5 each of parts indicated (90 pieces) 146.74

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.

Free shipping on orders over S\$135! All prices are in Singapore dollar.

2110 (SG2011-EN) www.digikey.sg — Toll-Free: 800-1011-692 — Telephone: (852) 3104 0500 — Fax: (852) 3104 0686