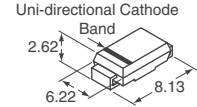




SMCJ Series – 1500 Watt TVS Diode DO-214AB (SMC) Package



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 • **Electrical Specification:** Tested at 25°C

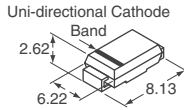
(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min.	Breakdown Voltage V _{BR} (V) @ I _T Max.	Maximum Reverse Leakage I _R @ V _R (µA)	(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min.	Breakdown Voltage V _{BR} (V) @ I _T 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.	Breakdown Voltage V _{BR} (V) @ I _T Max.	Maximum Reverse Leakage I _R @ V _R (µA)
5.0	5.0	6.40	7.00	800	22	22.0	24.40	26.90	1	78	78.0	86.70	95.80	1
6.0	6.0	6.67	7.37	800	24	24.0	26.70	29.50	1	85	85.0	94.40	104.00	1
6.5	6.5	7.22	7.98	500	26	26.0	28.90	31.90	1	90	90.0	100.00	111.00	1
7.0	7.0	7.78	8.60	200	28	28.0	31.10	34.40	1	100	100.0	111.00	123.00	1
7.5	7.5	8.33	9.21	100	30	30.0	33.30	36.80	1	110	110.0	122.00	135.00	1
8.0	8.0	8.89	9.83	50	33	33.0	36.70	40.60	1	120	120.0	133.00	147.00	1
8.5	8.5	9.44	10.40	20	36	36.0	40.00	44.20	1	130	130.0	144.00	159.00	1
9.0	9.0	10.00	11.10	10	40	40.0	44.40	49.10	1	150	150.0	167.00	185.00	1
10	10	11.10	12.30	5	45	45.0	50.00	55.30	1	160	160.0	178.00	197.00	1
11	11	12.20	13.50	1	48	48.0	53.30	58.90	1	170	170.0	189.00	209.00	1
12	12	13.30	14.70	1	51	51.0	56.70	62.70	1	180	180.0	201.00	222.00	1
13	13	14.40	15.90	1	54	54.0	60.00	66.30	1	200	200.0	224.00	247.00	1
14	14	15.60	17.20	1	58	58.0	64.40	71.20	1	220	220.0	246.00	272.00	1
15	15	16.70	18.50	1	60	60.0	66.70	73.70	1	250	250.0	279.00	309.00	1
16	16	17.80	19.70	1	64	64.0	71.10	78.60	1	300	300.0	335.00	371.00	1
17	17	18.90	20.90	1	70	70.0	77.80	86.00	1	350	350.0	391.00	432.00	1
18	18	20.00	22.10	1	75	75.0	83.30	92.10	1	400	400.0	447.00	494.00	1
20	20	22.20	24.50	1						440	440.0	492.00	543.00	1

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	1	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
Uni-directional	5.0 – 200	SMCJ(Value)ALFCT-ND	5.44	50.16	421.61	SMCJ(Value)ALFTR-ND	1989.47/M
	220 – 440	SMCJ(Value)ALFCT-ND	7.65	70.40	591.74	SMCJ(Value)ALFTR-ND	2797.16/M
Bi-directional	5.0 – 200	SMCJ(Value)CALFCT-ND	5.95	54.84	461.06	SMCJ(Value)CALFTR-ND	2176.52/M
	220 – 440	SMCJ(Value)CALFCT-ND	8.33	76.86	645.98	SMCJ(Value)CALFTR-ND	3052.22/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

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

- 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



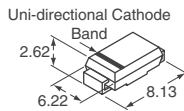
(Value) Nominal Breakdown Voltage	Marking Code Uni	Marking Code Bi	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min.	Breakdown Voltage V _{BR} (V) @ I _T Max.	Maximum Reverse Leakage I _R @ V _R (µA)
6.8	6V8A	6V8C	5.80	6.45	7.14	1000
12	12A	12C	10.20	11.40	12.60	5
18	18A	18C	15.30	17.10	18.90	1
20	20A	20C	17.10	19.00	21.00	1
24	24A	24C	20.50	22.80	25.20	1
27	27A	27C	23.10	25.70	28.40	1
30	30A	30C	25.60	28.50	31.50	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

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	1	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
Uni-directional	6.8 – 39	1.5SMC(Value)ACT-ND	5.44	50.16	421.61	1.5SMC(Value)ATR-ND	1989.47/M
Bi-directional	6.8 – 39	1.5SMC(Value)CACT-ND	5.95	54.84	461.06	1.5SMC(Value)CATR-ND	2176.52/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

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

- 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%



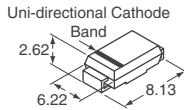
(Value) Nominal Breakdown Voltage	Marking Code Uni	Marking Code Bi	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min.	Breakdown Voltage V _{BR} (V) @ I _T Max.	Maximum Reverse Leakage I _R @ V _R (µA)
10	PDX	DDX	10.0	11.10	12.30	5
12	PEE	DEE	12.0	13.30	14.70	2
15	PEM	DEM	15.0	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	PFG	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	DFV	36.0	40.00	44.20	2

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	1	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
Uni-directional	10 – 36	SMDJ(Value)ACT-ND	8.93	81.87	687.90	SMDJ(Value)ATR-ND	3247.77/M
Bi-directional	10 – 17	SMDJ(Value)CACT-ND	9.61	88.25	742.14	SMDJ(Value)CATR-ND	3502.83/M
	18 – 36	SMDJ(Value)CACT-ND	11.39	104.74	880.21	SMDJ(Value)CATR-ND	4157.48/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

5.0 SMDJ Series – 5000 Watt TVS Diode DO-214AB (SMC) Package

- 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
 - UL approved 20V – 170V only



(Value) Nominal Breakdown Voltage	Marking Code Uni	Reverse Stand Off Voltage V _R (V)	Breakdown Voltage V _{BR} (V) @ I _T Min.	Breakdown Voltage V _{BR} (V) @ I _T Max.	Maximum Reverse Leakage I _R @ V _R (µA)
12	5PEP	12.0	13.30	14.70	800
14	5PER	14.0	15.60	17.20	200
15	5PES	15.0	16.70	18.50	100
16	5PET	16.0	17.80	19.70	50
18	5PEV	18.0	20.00	22.10	10
24	5PEZ	24.0	26.70	29.50	5

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	1	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
Uni-directional	12 – 24	5.0SMDJ(Value)ACT-ND	17.17	157.80	1326.48	5.0SMDJ(Value)ATR-ND	6265.98/M

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