



## Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Part Number Add C For Bi-Directional (Note 4)	Reverse Standoff Voltage $V_{RWM}$ (V)	Breakdown Voltage $V_{BR}$ @ $I_T$ (Note 5)		Test Current $I_T$ (mA)	Max. Reverse Leakage @ $V_{RWM}$ (Note 6) $I_R$ ( $\mu\text{A}$ )	Max. Clamping Voltage @ $I_{pp}$ $V_C$ (V)	Max. Peak Pulse Current $I_{pp}$ (A)
		Min (V)	Max (V)				
SMDJ5.0(C)A	5.0	6.40	7.00	10	800	9.2	326.09
SMDJ6.0(C)A	6.0	6.67	7.37	10	800	10.3	291.26
SMDJ6.5(C)A	6.5	7.22	7.98	10	500	11.2	267.86
SMDJ7.0(C)A	7.0	7.78	8.60	10	200	12.0	250.00
SMDJ7.5(C)A	7.5	8.33	9.21	1.0	100	12.9	232.56
SMDJ8.0(C)A	8.0	8.89	9.83	1.0	50	13.6	220.59
SMDJ8.5(C)A	8.5	9.44	10.40	1.0	20	14.4	208.33
SMDJ9.0(C)A	9.0	10.00	11.10	1.0	10	15.4	194.81
SMDJ10(C)A	10.0	11.10	12.30	1.0	5.0	17.0	176.47
SMDJ11(C)A	11.0	12.20	13.50	1.0	5.0	18.2	164.84
SMDJ12(C)A	12.0	13.30	14.70	1.0	2.0	19.9	150.75
SMDJ13(C)A	13.0	14.40	15.90	1.0	2.0	21.5	139.53
SMDJ14(C)A	14.0	15.60	17.20	1.0	2.0	23.2	129.31
SMDJ15(C)A	15.0	16.70	18.50	1.0	1.0	24.4	122.95
SMDJ16(C)A	16.0	17.80	19.70	1.0	1.0	26.0	115.38
SMDJ17(C)A	17.0	18.90	20.90	1.0	1.0	27.6	108.70
SMDJ18(C)A	18.0	20.00	22.10	1.0	1.0	29.2	102.74
SMDJ20(C)A	20.0	22.20	24.50	1.0	1.0	32.4	92.59
SMDJ22(C)A	22.0	24.40	26.90	1.0	1.0	35.5	84.51
SMDJ24(C)A	24.0	26.70	29.50	1.0	1.0	38.9	77.12
SMDJ26(C)A	26.0	28.90	31.90	1.0	1.0	42.1	71.26
SMDJ28(C)A	28.0	31.10	34.40	1.0	1.0	45.4	66.08
SMDJ30(C)A	30.0	33.30	36.80	1.0	1.0	48.4	61.98
SMDJ33(C)A	33.0	36.70	40.60	1.0	1.0	53.3	56.29
SMDJ36(C)A	36.0	40.00	44.20	1.0	1.0	58.1	51.64
SMDJ40(C)A	40.0	44.40	49.10	1.0	1.0	64.5	46.51
SMDJ43(C)A	43.0	47.80	52.80	1.0	1.0	69.4	43.23
SMDJ45(C)A	45.0	50.00	55.30	1.0	1.0	72.7	41.27
SMDJ48(C)A	48.0	53.30	58.90	1.0	1.0	77.4	38.76
SMDJ51(C)A	51.0	56.70	62.70	1.0	1.0	82.4	36.41
SMDJ54(C)A	54.0	60.00	66.30	1.0	1.0	87.1	34.44
SMDJ58(C)A	58.0	64.40	71.20	1.0	1.0	93.6	32.05
SMDJ60(C)A	60.0	66.70	73.70	1.0	1.0	96.8	30.99
SMDJ64(C)A	64.0	71.10	78.60	1.0	1.0	103.0	29.13
SMDJ70(C)A	70.0	77.80	86.00	1.0	1.0	113.0	26.55
SMDJ75(C)A	75.0	83.30	92.10	1.0	1.0	121.0	24.79

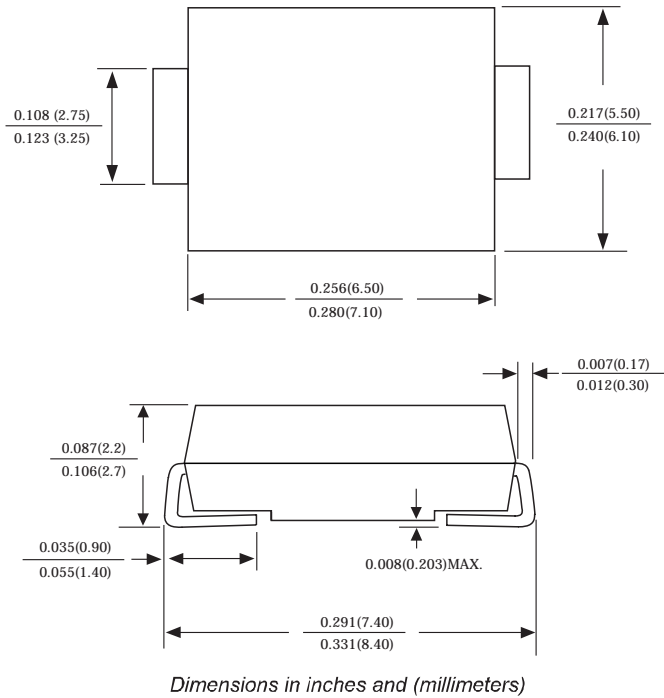
## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Part Number Add C For Bi-Directional (Note 4)	Reverse Standoff Voltage $V_{RWM}$ (V)	Breakdown Voltage $V_{BR}$ @ $I_T$ (Note 5)		Test Current $I_T$ (mA)	Max. Reverse Leakage @ $V_{RWM}$ (Note 6) $I_R$ ( $\mu\text{A}$ )	Max. Clamping Voltage @ $I_{pp}$ $V_C$ (V)	Max. Peak Pulse Current $I_{pp}$ (A)
		Min (V)	Max (V)				
SMDJ78(C)A	78.0	86.70	95.80	1.0	1.0	126.0	23.81
SMDJ85(C)A	85.0	94.40	104.00	1.0	1.0	137.0	21.90
SMDJ90(C)A	90.0	100.0	111.00	1.0	1.0	146.0	20.55
SMDJ100(C)A	100.0	111.0	123.00	1.0	1.0	162.0	18.52
SMDJ110(C)A	110.0	122.0	135.00	1.0	1.0	177.0	16.95
SMDJ120(C)A	120.0	133.0	147.00	1.0	1.0	193.0	15.54
SMDJ130(C)A	130.0	144.0	159.00	1.0	1.0	209.0	14.35
SMDJ150(C)A	150.0	167.0	185.00	1.0	1.0	243.0	12.35
SMDJ160(C)A	160.0	178.0	197.00	1.0	1.0	259.0	11.58
SMDJ170(C)A	170.0	189.0	209.00	1.0	1.0	275.0	10.91
SMDJ180(C)A	180.0	200.0	220.00	1.0	1.0	291.6	10.29
SMDJ190(C)A	190.0	211.0	232.00	1.0	1.0	307.8	9.75
SMDJ200(C)A	200.0	224.0	247.00	1.0	1.0	324.0	9.26
SMDJ220(C)A	220.0	246.0	272.00	1.0	1.0	356.0	8.43
SMDJ250(C)A	250.0	279.0	309.00	1.0	1.0	405.0	7.41
SMDJ300(C)A	300.0	335.0	371.00	1.0	1.0	486.0	6.17
SMDJ350(C)A	350.0	391.0	432.00	1.0	1.0	567.0	5.29
SMDJ400(C)A	400.0	447.0	494.00	1.0	1.0	648.0	4.63
SMDJ440(C)A	440.0	492.0	543.00	1.0	1.0	713.0	4.21

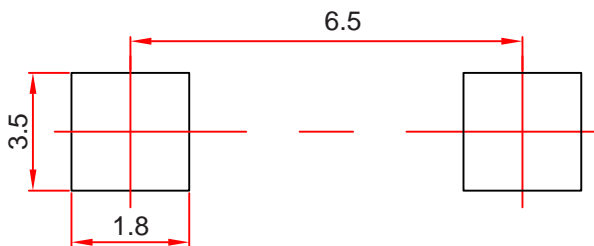
- Notes:
4. Suffix C denotes Bi-directional device.
  5.  $V_{BR}$  measured with  $I_T$  current pulse =  $300\mu\text{s}$
  6. For Bi-Directional devices having  $V_{RWM}$  of 10V and under, the  $I_R$  is doubled.



## SMC Package Outline Dimensions



## SMC Suggested Pad Layout



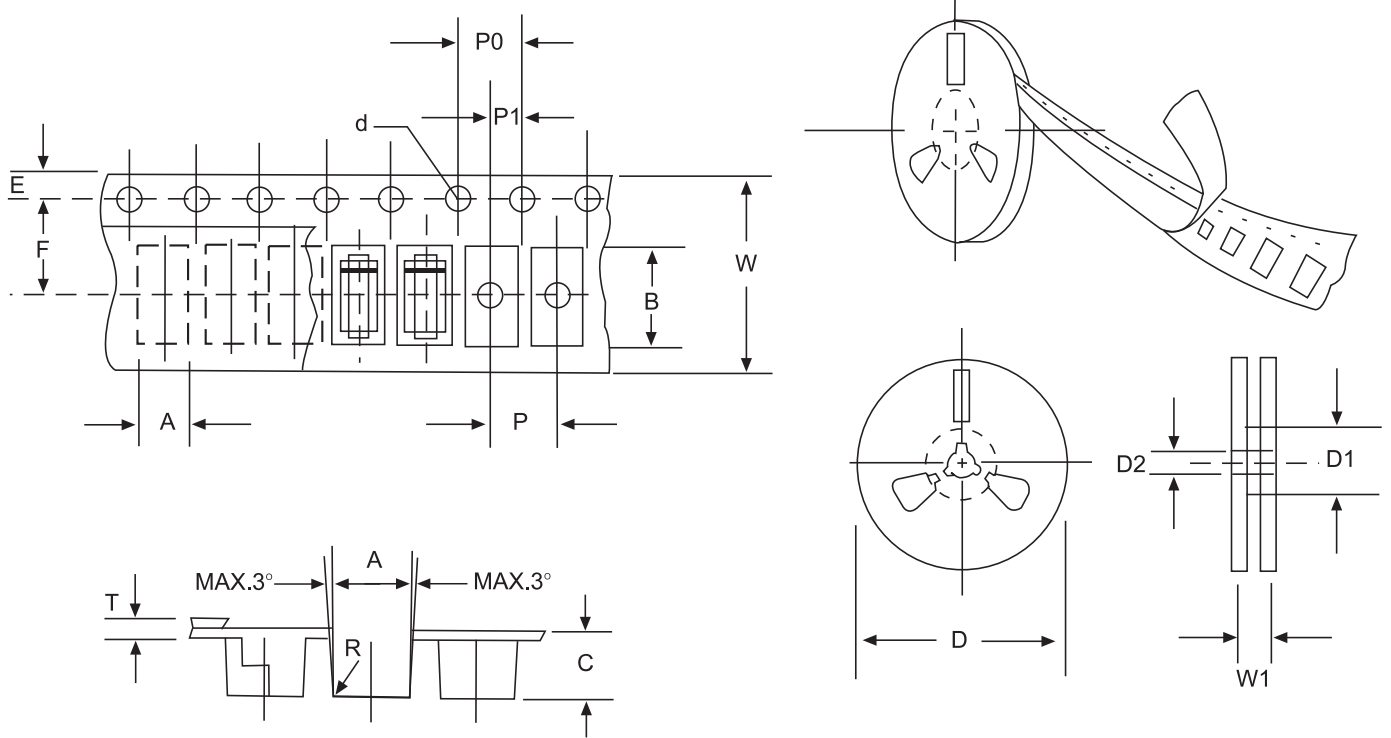
### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$  mm.
3. The pad layout is for reference purposes only.

### NOTICE

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# Reel Taping Specifications For Surface Mount Devices- SMCG



**FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING**

ITEM	SYMBOL	SMCG mm(inch)
Carrier width	A	6.05±0.1(0.238±0.004)
Carrier length	B	8.31±0.1(0.327±0.004)
Carrier depth	C	2.70±0.1(0.106±0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)
Reel outside diameter	D	330±2.0(13±0.079)
Reel inner diameter	D1	75 ±1.0 ( 2.95 ±0.039)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Strocket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	7.65±0.05(0.301±0.002)
Punch hole pitch	P	8.0±0.1(0.315±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)
Totall tape thickness	T	0.3±0.1(0.012±0.004)
Tape width	W	16.0±0.2(0.630±0.008)
Reel width	W1	24.0±2.0(0.945±0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.