



DESCRIPTION

The SMAJ series support both Uni and Bi-direction.

FEATURES

- Available in SMA Package

ORDERING INFORMATION

Package Type	Part Number	
	Uni	Bi
SMA	SMAJ5.0	SMAJ5.0C
	SMAJ5.0A	SMAJ5.0CA
	SMAJ6.0	SMAJ6.0C
	SMAJ6.0A	SMAJ6.0CA
	SMAJ6.5	SMAJ6.5C
	SMAJ6.5A	SMAJ6.5CA
	SMAJ7.0	SMAJ7.0C
	SMAJ7.0A	SMAJ7.0CA
	SMAJ7.5	SMAJ7.5C
	SMAJ7.5A	SMAJ7.5CA
	SMAJ8.0	SMAJ8.0C
	SMAJ8.0A	SMAJ8.0CA
	SMAJ8.5	SMAJ8.5C
	SMAJ8.5A	SMAJ8.5CA
	SMAJ9.0	SMAJ9.0C
	SMAJ9.0A	SMAJ9.0CA
	SMAJ10	SMAJ10C
	SMAJ10A	SMAJ10CA
	SMAJ11	SMAJ11C
	SMAJ11A	SMAJ11CA
	SMAJ12	SMAJ12C
	SMAJ12A	SMAJ12CA
	SMAJ13	SMAJ13C
	SMAJ13A	SMAJ13CA
SMAJ14	SMAJ14C	
SMAJ14A	SMAJ14CA	
SMAJ15	SMAJ15C	
SMAJ15A	SMAJ15CA	

Package Type	Part Number	
	Uni	Bi
SMA	SMAJ16	SMAJ16C
	SMAJ16A	SMAJ16CA
	SMAJ17	SMAJ17C
	SMAJ17A	SMAJ17CA
	SMAJ18	SMAJ18C
	SMAJ18A	SMAJ18CA
	SMAJ20	SMAJ20C
	SMAJ20A	SMAJ20CA
	SMAJ22	SMAJ22C
	SMAJ22A	SMAJ22CA
	SMAJ24	SMAJ24C
	SMAJ24A	SMAJ24CA
	SMAJ26	SMAJ26C
	SMAJ26A	SMAJ26CA
	SMAJ28	SMAJ28C
	SMAJ28A	SMAJ28CA
	SMAJ30	SMAJ30C
	SMAJ30A	SMAJ30CA
	SMAJ33	SMAJ33C
	SMAJ33A	SMAJ33CA
	SMAJ36	SMAJ36C
	SMAJ36A	SMAJ36CA
	SMAJ40	SMAJ40C
	SMAJ40A	SMAJ40CA
SMAJ43	SMAJ43C	
SMAJ43A	SMAJ43CA	
Note	SPQ: 2,000pcs/ Reel	
AiT provides all RoHS Compliant Products		



Package Type	Part Number	
	Uni	Bi
SMA	SMAJ45	SMAJ45C
	SMAJ45A	SMAJ45CA
	SMAJ48	SMAJ48C
	SMAJ48A	SMAJ48CA
	SMAJ51	SMAJ51C
	SMAJ51A	SMAJ51CA
	SMAJ54	SMAJ54C
	SMAJ54A	SMAJ54CA
	SMAJ58	SMAJ58C
	SMAJ58A	SMAJ58CA
	SMAJ60	SMAJ60C
	SMAJ60A	SMAJ60CA
	SMAJ64	SMAJ64C
	SMAJ64A	SMAJ64CA
	SMAJ70	SMAJ70C
	SMAJ70A	SMAJ70CA
	SMAJ75	SMAJ75C
	SMAJ75A	SMAJ75CA
	SMAJ78	SMAJ78C
	SMAJ78A	SMAJ78CA
	SMAJ85	SMAJ85C
	SMAJ85A	SMAJ85CA
	SMAJ90	SMAJ90C
	SMAJ90A	SMAJ90CA
	SMAJ100	SMAJ100C
	SMAJ100A	SMAJ100CA
	SMAJ110	SMAJ110C
	SMAJ110A	SMAJ110CA
SMAJ120	SMAJ120C	
SMAJ120A	SMAJ120CA	

Package Type	Part Number	
	Uni	Bi
SMA	SMAJ130	SMAJ130C
	SMAJ130A	SMAJ130CA
	SMAJ150	SMAJ150C
	SMAJ150A	SMAJ150CA
	SMAJ160	SMAJ160C
	SMAJ160A	SMAJ160CA
	SMAJ170	SMAJ170C
	SMAJ170A	SMAJ170CA
	SMAJ180	SMAJ180C
	SMAJ180A	SMAJ180CA
	SMAJ190	SMAJ190C
	SMAJ190A	SMAJ190CA
	SMAJ200	SMAJ200C
	SMAJ200A	SMAJ200CA
	SMAJ210	SMAJ210C
	SMAJ210A	SMAJ210CA
	SMAJ220	SMAJ220C
	SMAJ220A	SMAJ220CA
	SMAJ250	SMAJ250C
	SMAJ250A	SMAJ250CA
	SMAJ300	SMAJ300C
	SMAJ300A	SMAJ300CA
	SMAJ350	SMAJ350C
	SMAJ350A	SMAJ350CA
	SMAJ400	SMAJ400C
	SMAJ400A	SMAJ400CA
	SMAJ440	SMAJ440C
	SMAJ440A	SMAJ440CA
Note	SPQ: 2,000pcs/ Reel	
AiT provides all RoHS Compliant Products		



ELECTRICAL CHARACTERISTICS

Part Number		Reverse Stand-off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RMW}
Uni	Bi	V _{RMW} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMAJ5.0	SMAJ5.0C	5.0	6.40	7.55	10.0	9.6	41.7	800.0
SMAJ5.0A	SMAJ5.0CA	5.0	6.40	7.25	10.0	9.2	43.5	800.0
SMAJ6.0	SMAJ6.0C	6.0	6.67	8.45	10.0	11.4	35.1	800.0
SMAJ6.0A	SMAJ6.0CA	6.0	6.67	7.67	10.0	10.3	38.8	800.0
SMAJ6.5	SMAJ6.5C	6.5	7.22	9.14	10.0	12.3	32.5	500.0
SMAJ6.5A	SMAJ6.5CA	6.5	7.22	8.30	10.0	11.2	35.7	500.0
SMAJ7.0	SMAJ7.0C	7.0	7.78	9.86	10.0	13.3	30.1	200.0
SMAJ7.0A	SMAJ7.0CA	7.0	7.78	8.95	10.0	12.0	33.3	200.0
SMAJ7.5	SMAJ7.5C	7.5	8.33	10.67	1.0	14.3	28.0	100.0
SMAJ7.5A	SMAJ7.5CA	7.5	8.33	9.58	1.0	12.9	31.0	100.0
SMAJ8.0	SMAJ8.0C	8.0	8.89	11.3	1.0	15.0	26.7	50.0
SMAJ8.0A	SMAJ8.0CA	8.0	8.89	10.23	1.0	13.6	29.4	50.0
SMAJ8.5	SMAJ8.5C	8.5	9.44	11.92	1.0	15.9	25.2	20.0
SMAJ8.5A	SMAJ8.5CA	8.5	9.44	10.82	1.0	14.4	27.8	20.0
SMAJ9.0	SMAJ9.0C	9.0	10.0	12.6	1.0	16.9	23.7	10.0
SMAJ9.0A	SMAJ9.0CA	9.0	10.0	11.5	1.0	15.4	26.0	10.0
SMAJ10	SMAJ10C	10	11.1	14.1	1.0	18.8	21.3	5.0
SMAJ10A	SMAJ10CA	10	11.1	12.8	1.0	17.0	23.5	5.0
SMAJ11	SMAJ11C	11	12.2	15.4	1.0	20.1	19.9	5.0
SMAJ11A	SMAJ11CA	11	12.2	14.0	1.0	18.2	22.0	5.0
SMAJ12	SMAJ12C	12	13.3	16.9	1.0	22.0	18.2	5.0
SMAJ12A	SMAJ12CA	12	13.3	15.3	1.0	19.9	20.1	5.0
SMAJ13	SMAJ13C	13	14.4	18.2	1.0	23.8	16.8	5.0
SMAJ13A	SMAJ13CA	13	14.4	16.5	1.0	21.5	18.6	5.0
SMAJ14	SMAJ14C	14	15.6	19.8	1.0	25.8	15.5	5.0
SMAJ14A	SMAJ14CA	14	15.6	17.9	1.0	23.2	17.2	5.0
SMAJ15	SMAJ15C	15	16.7	21.1	1.0	26.9	14.9	5.0
SMAJ15A	SMAJ15CA	15	16.7	19.2	1.0	24.4	16.4	5.0
SMAJ16	SMAJ16C	16	17.8	22.6	1.0	28.8	13.9	5.0
SMAJ16A	SMAJ16CA	16	17.8	20.5	1.0	26.0	15.4	5.0
SMAJ17	SMAJ17C	17	18.9	23.9	1.0	30.5	13.1	5.0
SMAJ17A	SMAJ17CA	17	18.9	21.7	1.0	27.6	14.5	5.0

※ For Bi-directional type having V_{RMW} of 10 Volts and less, the I_R limit is double



Part Number		Reverse Stand-off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RMW}
Uni	Bi	V _{RMW} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMAJ18	SMAJ18C	18	20.0	25.3	1.0	32.2	12.4	5.0
SMAJ18A	SMAJ18CA	18	20.0	23.3	1.0	29.2	13.7	5.0
SMAJ20	SMAJ20C	20	22.2	28.1	1.0	35.8	11.2	5.0
SMAJ20A	SMAJ20CA	20	22.2	25.5	1.0	32.4	12.3	5.0
SMAJ22	SMAJ22C	22	24.4	30.9	1.0	39.4	10.2	5.0
SMAJ22A	SMAJ22CA	22	24.4	28.0	1.0	35.5	11.3	5.0
SMAJ24	SMAJ24C	24	26.7	33.8	1.0	43.0	9.3	5.0
SMAJ24A	SMAJ24CA	24	26.7	30.7	1.0	38.9	10.3	5.0
SMAJ26	SMAJ26C	26	28.9	36.6	1.0	46.6	8.6	5.0
SMAJ26A	SMAJ26CA	26	28.9	33.2	1.0	42.1	9.5	5.0
SMAJ28	SMAJ28C	28	31.1	39.4	1.0	50.0	8.0	5.0
SMAJ28A	SMAJ28CA	28	31.1	35.8	1.0	45.4	8.8	5.0
SMAJ30	SMAJ30C	30	33.3	42.2	1.0	53.5	7.5	5.0
SMAJ30A	SMAJ30CA	30	33.3	38.3	1.0	48.4	8.3	5.0
SMAJ33	SMAJ33C	33	36.7	46.5	1.0	59.0	6.8	5.0
SMAJ33A	SMAJ33CA	33	36.7	42.2	1.0	53.3	7.5	5.0
SMAJ36	SMAJ36C	36	40.0	50.7	1.0	64.3	6.2	5.0
SMAJ36A	SMAJ36CA	36	40.0	46.0	1.0	58.1	6.9	5.0
SMAJ40	SMAJ40C	40	44.4	56.3	1.0	71.4	5.6	5.0
SMAJ40A	SMAJ40CA	40	44.4	51.1	1.0	64.5	6.2	5.0
SMAJ43	SMAJ43C	43	47.8	60.5	1.0	76.7	5.2	5.0
SMAJ43A	SMAJ43CA	43	47.8	54.9	1.0	69.4	5.8	5.0
SMAJ45	SMAJ45C	45	50.0	63.3	1.0	80.3	5.0	5.0
SMAJ45A	SMAJ45CA	45	50.0	57.5	1.0	72.7	5.5	5.0
SMAJ48	SMAJ48C	48	53.3	67.5	1.0	85.5	4.7	5.0
SMAJ48A	SMAJ48CA	48	53.3	61.3	1.0	77.4	5.2	5.0
SMAJ51	SMAJ51C	51	56.7	71.8	1.0	91.1	4.4	5.0
SMAJ51A	SMAJ51CA	51	56.7	65.2	1.0	82.4	4.9	5.0
SMAJ54	SMAJ54C	54	60.0	76.0	1.0	96.3	4.2	5.0
SMAJ54A	SMAJ54CA	54	60.0	69.0	1.0	87.1	4.6	5.0
SMAJ58	SMAJ58C	58	64.4	81.6	1.0	103	3.9	5.0
SMAJ58A	SMAJ58CA	58	64.4	71.4	1.0	93.6	4.3	5.0

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Part Number		Reverse Stand-off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RMW}
Uni	Bi	V _{RMW} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMAJ60	SMAJ60C	60	66.7	84.5	1.0	107	3.7	5.0
SMAJ60A	SMAJ60CA	60	66.7	76.7	1.0	96.8	4.1	5.0
SMAJ64	SMAJ64C	64	71.1	90.1	1.0	114	3.5	5.0
SMAJ64A	SMAJ64CA	64	71.1	81.8	1.0	103	3.9	5.0
SMAJ70	SMAJ70C	70	77.8	98.6	1.0	125	3.2	5.0
SMAJ70A	SMAJ70CA	70	77.8	89.5	1.0	113	3.5	5.0
SMAJ75	SMAJ75C	75	83.0	105.7	1.0	134	3.0	5.0
SMAJ75A	SMAJ75CA	75	83.0	95.8	1.0	121	3.3	5.0
SMAJ78	SMAJ78C	78	86.0	109.8	1.0	139	2.9	5.0
SMAJ78A	SMAJ78CA	78	86.0	99.7	1.0	126	3.2	5.0
SMAJ85	SMAJ85C	85	94.0	119.2	1.0	151	2.6	5.0
SMAJ85A	SMAJ85CA	85	94.0	108.2	1.0	137	2.9	5.0
SMAJ90	SMAJ90C	90	100	126.5	1.0	160	2.5	5.0
SMAJ90A	SMAJ90CA	90	100	115.5	1.0	146	2.7	5.0
SMAJ100	SMAJ100C	100	111	141.0	1.0	179	2.2	5.0
SMAJ100A	SMAJ100CA	100	111	128.0	1.0	162	2.5	5.0
SMAJ110	SMAJ110C	110	122	154.5	1.0	196	2.0	5.0
SMAJ110A	SMAJ110CA	110	122	140.5	1.0	177	2.3	5.0
SMAJ120	SMAJ120C	120	133	169.0	1.0	214	1.9	5.0
SMAJ120A	SMAJ120CA	120	133	153.0	1.0	193	2.1	5.0
SMAJ130	SMAJ130C	130	144	182.5	1.0	231	1.7	5.0
SMAJ130A	SMAJ130CA	130	144	165.5	1.0	209	1.9	5.0
SMAJ150	SMAJ150C	150	167	211.5	1.0	268	1.5	5.0
SMAJ150A	SMAJ150CA	150	167	192.5	1.0	243	1.6	5.0
SMAJ160	SMAJ160C	160	178	226.0	1.0	287	1.4	5.0
SMAJ160A	SMAJ160CA	160	178	205.0	1.0	259	1.5	5.0
SMAJ170	SMAJ170C	170	189	239.5	1.0	304	1.3	5.0
SMAJ170A	SMAJ170CA	170	189	217.5	1.0	275	1.5	5.0
SMAJ180	SMAJ180C	180	200	253.8	1.0	321	1.2	5.0
SMAJ180A	SMAJ180CA	180	200	230.4	1.0	290	1.4	5.0
SMAJ190	SMAJ190C	190	211	267.9	1.0	339	1.2	5.0
SMAJ190A	SMAJ190CA	190	211	243.2	1.0	306	1.3	5.0

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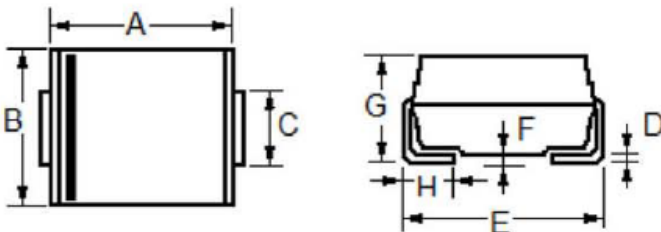


Part Number		Reverse Stand-off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RMW}
Uni	Bi	V _{RMW} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMAJ200	SMAJ200C	200	222	282.0	1.0	356	1.1	5.0
SMAJ200A	SMAJ200CA	200	222	256.0	1.0	322	1.2	5.0
SMAJ210	SMAJ210C	210	233	296.1	1.0	375	1.1	5.0
SMAJ210A	SMAJ210CA	210	233	268.8	1.0	339	1.2	5.0
SMAJ220	SMAJ220C	220	244	310.2	1.0	392	1.0	5.0
SMAJ220A	SMAJ220CA	220	244	281.6	1.0	355	1.1	5.0
SMAJ250	SMAJ250C	250	278	342.5	1.0	447	0.9	5.0
SMAJ250A	SMAJ250CA	250	278	309.0	1.0	403	1.0	5.0
SMAJ300	SMAJ300C	300	333	411.0	1.0	535	0.7	5.0
SMAJ300A	SMAJ300CA	300	333	371.0	1.0	484	0.8	5.0
SMAJ350	SMAJ350C	350	389	479.5	1.0	624	0.6	5.0
SMAJ350A	SMAJ350CA	350	389	432.0	1.0	565	0.7	5.0
SMAJ400	SMAJ400C	400	444	548.0	1.0	687	0.6	5.0
SMAJ400A	SMAJ400CA	400	444	494.0	1.0	645	0.6	5.0
SMAJ440	SMAJ440C	440	489	602.8	1.0	786	0.5	5.0
SMAJ440A	SMAJ440CA	440	489	543.0	1.0	710	0.6	5.0

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PACKAGE INFORMATION

Dimension in SMA (DO-214AC) Package (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.99	4.50	0.157	0.177
B	2.54	2.79	0.100	0.110
C	1.25	1.65	0.049	0.065
D	0.152	0.305	0.006	0.012
E	4.93	5.28	0.194	0.208
F	-	0.203	-	0.008
G	1.98	2.29	0.078	0.090
H	0.76	1.52	0.030	0.060



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SMAJ
TRANSIENT VOLTAGE SUPPRESSOR
400 WATT PEAK POWER



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