



DESCRIPTION

The SMBJ series support both Uni and Bi-direction.

FEATURES

- Available in SMB Package

ORDERING INFORMATION

Package Type	Part Number	
	Uni	Bi
SMB	SMBJ5.0	SMBJ5.0C
	SMBJ5.0A	SMBJ5.0CA
	SMBJ6.0	SMBJ6.0C
	SMBJ6.0A	SMBJ6.0CA
	SMBJ6.5	SMBJ6.5C
	SMBJ6.5A	SMBJ6.5CA
	SMBJ7.0	SMBJ7.0C
	SMBJ7.0A	SMBJ7.0CA
	SMBJ7.5	SMBJ7.5C
	SMBJ7.5A	SMBJ7.5CA
	SMBJ8.0	SMBJ8.0C
	SMBJ8.0A	SMBJ8.0CA
	SMBJ8.5	SMBJ8.5C
	SMBJ8.5A	SMBJ8.5CA
	SMBJ9.0	SMBJ9.0C
	SMBJ9.0A	SMBJ9.0CA
	SMBJ10	SMBJ10C
	SMBJ10A	SMBJ10CA
	SMBJ11	SMBJ11C
	SMBJ11A	SMBJ11CA
	SMBJ12	SMBJ12C
	SMBJ12A	SMBJ12CA
	SMBJ13	SMBJ13C
	SMBJ13A	SMBJ13CA
	SMBJ14	SMBJ14C
	SMBJ14A	SMBJ14CA
	SMBJ15	SMBJ15C
	SMBJ15A	SMBJ15CA

Package Type	Part Number	
	Uni	Bi
SMB	SMBJ16	SMBJ16C
	SMBJ16A	SMBJ16CA
	SMBJ17	SMBJ17C
	SMBJ17A	SMBJ17CA
	SMBJ18	SMBJ18C
	SMBJ18A	SMBJ18CA
	SMBJ20	SMBJ20C
	SMBJ20A	SMBJ20CA
	SMBJ22	SMBJ22C
	SMBJ22A	SMBJ22CA
	SMBJ24	SMBJ24C
	SMBJ24A	SMBJ24CA
	SMBJ26	SMBJ26C
	SMBJ26A	SMBJ26CA
	SMBJ28	SMBJ28C
	SMBJ28A	SMBJ28CA
	SMBJ30	SMBJ30C
	SMBJ30A	SMBJ30CA
	SMBJ33	SMBJ33C
	SMBJ33A	SMBJ33CA
	SMBJ36	SMBJ36C
	SMBJ36A	SMBJ36CA
	SMBJ40	SMBJ40C
	SMBJ40A	SMBJ40CA
	SMBJ43	SMBJ43C
	SMBJ43A	SMBJ43CA
Note	SPQ: 500pcs/ Reel	
AiT provides all RoHS Compliant Products		



Package Type	Part Number	
	Uni	Bi
SMB	SMBJ45	SMBJ45C
	SMBJ45A	SMBJ45CA
	SMBJ48	SMBJ48C
	SMBJ48A	SMBJ48CA
	SMBJ51	SMBJ51C
	SMBJ51A	SMBJ51CA
	SMBJ54	SMBJ54C
	SMBJ54A	SMBJ54CA
	SMBJ58	SMBJ58C
	SMBJ58A	SMBJ58CA
	SMBJ60	SMBJ60C
	SMBJ60A	SMBJ60CA
	SMBJ64	SMBJ64C
	SMBJ64A	SMBJ64CA
	SMBJ70	SMBJ70C
	SMBJ70A	SMBJ70CA
	SMBJ75	SMBJ75C
	SMBJ75A	SMBJ75CA
	SMBJ78	SMBJ78C
	SMBJ78A	SMBJ78CA
	SMBJ85	SMBJ85C
	SMBJ85A	SMBJ85CA
	SMBJ90	SMBJ90C
	SMBJ90A	SMBJ90CA
	SMBJ100	SMBJ100C
	SMBJ100A	SMBJ100CA
	SMBJ110	SMBJ110C
	SMBJ110A	SMBJ110CA
	SMBJ120	SMBJ120C
	SMBJ120A	SMBJ120CA

Package Type	Part Number	
	Uni	Bi
SMB	SMBJ130	SMBJ130C
	SMBJ130A	SMBJ130CA
	SMBJ150	SMBJ150C
	SMBJ150A	SMBJ150CA
	SMBJ160	SMBJ160C
	SMBJ160A	SMBJ160CA
	SMBJ170	SMBJ170C
	SMBJ170A	SMBJ170CA
	SMBJ180	SMBJ180C
	SMBJ180A	SMBJ180CA
	SMBJ190	SMBJ190C
	SMBJ190A	SMBJ190CA
	SMBJ200	SMBJ200C
	SMBJ200A	SMBJ200CA
	SMBJ210	SMBJ210C
	SMBJ210A	SMBJ210CA
	SMBJ220	SMBJ220C
	SMBJ220A	SMBJ220CA
	SMBJ250	SMBJ250C
	SMBJ250A	SMBJ250CA
	SMBJ300	SMBJ300C
	SMBJ300A	SMBJ300CA
	SMBJ350	SMBJ350C
	SMBJ350A	SMBJ350CA
	SMBJ400	SMBJ400C
	SMBJ400A	SMBJ400CA
	SMBJ440	SMBJ440C
	SMBJ440A	SMBJ440CA
	Note	
	SPQ: 500pcs/ 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 _{RWM}
Uni	Bi	V _{RWM} (V)	V _{BR} MIN(V)	V _{BR} MAX(V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMBJ5.0	SMBJ5.0C	5.0	6.40	7.55	10.0	9.6	62.5	800.0
SMBJ5.0A	SMBJ5.0CA	5.0	6.40	7.25	10.0	9.2	65.2	800.0
SMBJ6.0	SMBJ6.0C	6.0	6.67	8.45	10.0	11.4	52.6	800.0
SMBJ6.0A	SMBJ6.0CA	6.0	6.67	7.67	10.0	10.3	58.3	800.0
SMBJ6.5	SMBJ6.5C	6.5	7.22	9.14	10.0	12.3	48.8	500.0
SMBJ6.5A	SMBJ6.5CA	6.5	7.22	8.30	10.0	11.2	53.6	500.0
SMBJ7.0	SMBJ7.0C	7.0	7.78	9.86	10.0	13.3	45.1	200.0
SMBJ7.0A	SMBJ7.0CA	7.0	7.78	8.95	10.0	12.0	50.0	200.0
SMBJ7.5	SMBJ7.5C	7.5	8.33	10.67	1.0	14.3	42.0	100.0
SMBJ7.5A	SMBJ7.5CA	7.5	8.33	9.58	1.0	12.9	46.5	100.0
SMBJ8.0	SMBJ8.0C	8.0	8.89	11.3	1.0	15.0	40.0	50.0
SMBJ8.0A	SMBJ8.0CA	8.0	8.89	10.23	1.0	13.6	44.1	50.0
SMBJ8.5	SMBJ8.5C	8.5	9.44	11.92	1.0	15.9	37.7	20.0
SMBJ8.5A	SMBJ8.5CA	8.5	9.44	10.82	1.0	14.4	41.7	20.0
SMBJ9.0	SMBJ9.0C	9.0	10.0	12.6	1.0	16.9	35.5	10.0
SMBJ9.0A	SMBJ9.0CA	9.0	10.0	11.5	1.0	15.4	39.0	10.0
SMBJ10	SMBJ10C	10	11.1	14.1	1.0	18.8	31.9	5.0
SMBJ10A	SMBJ10CA	10	11.1	12.8	1.0	17.0	35.3	5.0
SMBJ11	SMBJ11C	11	12.2	15.4	1.0	20.1	29.9	5.0
SMBJ11A	SMBJ11CA	11	12.2	14.0	1.0	18.2	33.0	5.0
SMBJ12	SMBJ12C	12	13.3	16.9	1.0	22.0	27.3	5.0
SMBJ12A	SMBJ12CA	12	13.3	15.3	1.0	19.9	30.2	5.0
SMBJ13	SMBJ13C	13	14.4	18.2	1.0	23.8	25.2	5.0
SMBJ13A	SMBJ13CA	13	14.4	16.5	1.0	21.5	27.9	5.0
SMBJ14	SMBJ14C	14	15.6	19.8	1.0	25.8	23.3	5.0
SMBJ14A	SMBJ14CA	14	15.6	17.9	1.0	23.2	25.9	5.0
SMBJ15	SMBJ15C	15	16.7	21.1	1.0	26.9	22.3	5.0
SMBJ15A	SMBJ15CA	15	16.7	19.2	1.0	24.4	24.6	5.0
SMBJ16	SMBJ16C	16	17.8	22.6	1.0	28.8	20.8	5.0
SMBJ16A	SMBJ16CA	16	17.8	20.5	1.0	26.0	23.1	5.0
SMBJ17	SMBJ17C	17	18.9	23.9	1.0	30.5	19.7	5.0
SMBJ17A	SMBJ17CA	17	18.9	21.7	1.0	27.6	21.7	5.0

※ For Bi-directional type having V_{RWM} 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 _{RWM}
Uni	Bi	V _{RWM} (V)	V _{BR} MIN(V)	V _{BR} MAX(V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMBJ18	SMBJ18C	18	20.0	25.3	1.0	32.2	18.6	5.0
SMBJ18A	SMBJ18CA	18	20.0	23.3	1.0	29.2	20.5	5.0
SMBJ20	SMBJ20C	20	22.2	28.1	1.0	35.8	16.8	5.0
SMBJ20A	SMBJ20CA	20	22.2	25.5	1.0	32.4	18.5	5.0
SMBJ22	SMBJ22C	22	24.4	30.9	1.0	39.4	15.2	5.0
SMBJ22A	SMBJ22CA	22	24.4	28.0	1.0	35.5	16.9	5.0
SMBJ24	SMBJ24C	24	26.7	33.8	1.0	43.0	14.0	5.0
SMBJ24A	SMBJ24CA	24	26.7	30.7	1.0	38.9	15.4	5.0
SMBJ26	SMBJ26C	26	28.9	36.6	1.0	46.6	12.9	5.0
SMBJ26A	SMBJ26CA	26	28.9	33.2	1.0	42.1	14.3	5.0
SMBJ28	SMBJ28C	28	31.1	39.4	1.0	50.0	12.0	5.0
SMBJ28A	SMBJ28CA	28	31.1	35.8	1.0	45.4	13.2	5.0
SMBJ30	SMBJ30C	30	33.3	42.2	1.0	53.5	11.2	5.0
SMBJ30A	SMBJ30CA	30	33.3	38.3	1.0	48.4	12.4	5.0
SMBJ33	SMBJ33C	33	36.7	46.5	1.0	59.0	10.2	5.0
SMBJ33A	SMBJ33CA	33	36.7	42.2	1.0	53.3	11.3	5.0
SMBJ36	SMBJ36C	36	40.0	50.7	1.0	64.3	9.3	5.0
SMBJ36A	SMBJ36CA	36	40.0	46.0	1.0	58.1	10.3	5.0
SMBJ40	SMBJ40C	40	44.4	56.3	1.0	71.4	8.4	5.0
SMBJ40A	SMBJ40CA	40	44.4	51.1	1.0	64.5	9.3	5.0
SMBJ43	SMBJ43C	43	47.8	60.5	1.0	76.7	7.8	5.0
SMBJ43A	SMBJ43CA	43	47.8	54.9	1.0	69.4	8.6	5.0
SMBJ45	SMBJ45C	45	50.0	63.3	1.0	80.3	7.5	5.0
SMBJ45A	SMBJ45CA	45	50.0	57.5	1.0	72.7	8.3	5.0
SMBJ48	SMBJ48C	48	53.3	67.5	1.0	85.5	7.0	5.0
SMBJ48A	SMBJ48CA	48	53.3	61.3	1.0	77.4	7.8	5.0
SMBJ51	SMBJ51C	51	56.7	71.8	1.0	91.1	6.6	5.0
SMBJ51A	SMBJ51CA	51	56.7	65.2	1.0	82.4	7.3	5.0
SMBJ54	SMBJ54C	54	60.0	76.0	1.0	96.3	6.2	5.0
SMBJ54A	SMBJ54CA	54	60.0	69.0	1.0	87.1	6.9	5.0
SMBJ58	SMBJ58C	58	64.4	81.6	1.0	103	5.8	5.0
SMBJ58A	SMBJ58CA	58	64.4	74.1	1.0	93.6	6.4	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 _{RWM}
Uni	Bi	V _{RWM} (V)	V _{BR} MIN(V)	V _{BR} MAX(V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMBJ60	SMBJ60C	60	66.7	84.5	1.0	107	5.6	5.0
SMBJ60A	SMBJ60CA	60	66.7	76.7	1.0	96.8	6.2	5.0
SMBJ64	SMBJ64C	64	71.1	90.1	1.0	114	5.3	5.0
SMBJ64A	SMBJ64CA	64	71.1	81.8	1.0	103	5.8	5.0
SMBJ70	SMBJ70C	70	77.8	98.6	1.0	125	4.8	5.0
SMBJ70A	SMBJ70CA	70	77.8	89.5	1.0	113	5.3	5.0
SMBJ75	SMBJ75C	75	83.0	105.7	1.0	134	4.5	5.0
SMBJ75A	SMBJ75CA	75	83.0	95.8	1.0	121	5.0	5.0
SMBJ78	SMBJ78C	78	86.0	109.8	1.0	139	4.3	5.0
SMBJ78A	SMBJ78CA	78	86.0	99.7	1.0	126	4.8	5.0
SMBJ85	SMBJ85C	85	94.0	119.2	1.0	151	4.0	5.0
SMBJ85A	SMBJ85CA	85	94.0	108.2	1.0	137	4.4	5.0
SMBJ90	SMBJ90C	90	100	126.5	1.0	160	3.8	5.0
SMBJ90A	SMBJ90CA	90	100	115.5	1.0	146	4.1	5.0
SMBJ100	SMBJ100C	100	111	141.0	1.0	179	3.4	5.0
SMBJ100A	SMBJ100CA	100	111	128.0	1.0	162	3.7	5.0
SMBJ110	SMBJ110C	110	122	154.5	1.0	196	3.1	5.0
SMBJ110A	SMBJ110CA	110	122	140.5	1.0	177	3.4	5.0
SMBJ120	SMBJ120C	120	133	169.0	1.0	214	2.8	5.0
SMBJ120A	SMBJ120CA	120	133	153.0	1.0	193	3.1	5.0
SMBJ130	SMBJ130C	130	144	182.5	1.0	231	2.6	5.0
SMBJ130A	SMBJ130CA	130	144	165.5	1.0	209	2.9	5.0
SMBJ150	SMBJ150C	150	167	211.5	1.0	268	2.2	5.0
SMBJ150A	SMBJ150CA	150	167	192.5	1.0	243	2.5	5.0
SMBJ160	SMBJ160C	160	178	226.0	1.0	287	2.1	5.0
SMBJ160A	SMBJ160CA	160	178	205.0	1.0	259	2.3	5.0
SMBJ170	SMBJ170C	170	189	239.5	1.0	304	2.0	5.0
SMBJ170A	SMBJ170CA	170	189	217.5	1.0	275	2.2	5.0
SMBJ180	SMBJ180C	180	200	253.8	1.0	321	1.9	5.0
SMBJ180A	SMBJ180CA	180	200	230.4	1.0	290	2.1	5.0
SMBJ190	SMBJ190C	190	211	267.9	1.0	339	1.8	5.0
SMBJ190A	SMBJ190CA	190	211	243.2	1.0	306	2.0	5.0

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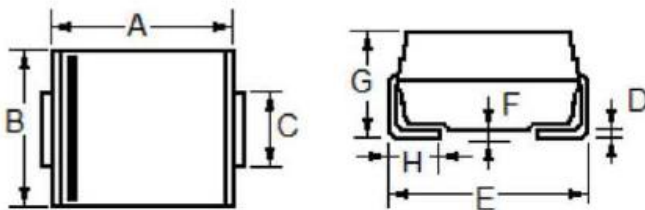


Part Number		Reverse Stand-off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}
Uni	Bi	V _{RWM} (V)	V _{BR} MIN(V)	V _{BR} MAX(V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMBJ200	SMBJ200C	200	222	282.0	1.0	356	1.7	5.0
SMBJ200A	SMBJ200CA	200	222	256.0	1.0	322	1.9	5.0
SMBJ210	SMBJ210C	210	233	296.1	1.0	375	1.6	5.0
SMBJ210A	SMBJ210CA	210	233	268.8	1.0	339	1.8	5.0
SMBJ220	SMBJ220C	220	244	310.2	1.0	392	1.5	5.0
SMBJ220A	SMBJ220CA	220	244	281.6	1.0	355	1.7	5.0
SMBJ250	SMBJ250C	250	278	342.5	1.0	447	1.3	5.0
SMBJ250A	SMBJ250CA	250	278	309.0	1.0	403	1.5	5.0
SMBJ300	SMBJ300C	300	333	411.0	1.0	535	1.1	5.0
SMBJ300A	SMBJ300CA	300	333	371.0	1.0	484	1.2	5.0
SMBJ350	SMBJ350C	350	389	479.5	1.0	624	1.0	5.0
SMBJ350A	SMBJ350CA	350	389	432.0	1.0	565	1.1	5.0
SMBJ400	SMBJ400C	400	444	548.0	1.0	687	0.9	5.0
SMBJ400A	SMBJ400CA	400	444	494.0	1.0	645	0.9	5.0
SMBJ440	SMBJ440C	440	489	602.8	1.0	786	0.8	5.0
SMBJ440A	SMBJ440CA	440	489	543.0	1.0	710	0.8	5.0

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PACKAGE INFORMATION

Dimension in SMB (DO-214AA) Package (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.06	4.57	0.160	0.180
B	3.30	3.94	0.130	0.155
C	1.95	2.20	0.077	0.086
D	0.125	0.305	0.006	0.012
E	5.21	5.59	0.205	0.220
F	-	0.203	-	0.008
G	2.13	2.44	0.084	0.096
H	0.76	1.52	0.030	0.060



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