

Description

Features

Low profile package

 Glass passivated junction Excellent clamping capability

**Mechanical Data** 

• Weight: 0.21 grams

Applications

Absolute Ratings

electronic applications.

## **5.0SMCJ-AT Series**



T i

T<sub>STG</sub>

**Operating Temperature Range** Storage Temperature Range

Note:

1. Non-repetitive current pulse, per Fig.4 and derated above Tj(initial) =25°C per Fig.1

2. For unidirectional units only

°C

-55 to +150

-55 to +150



# **5.0SMCJ-AT Series**

## Electrical Characteristics (@TA = 25°C, unless otherwise specified.)

Part Number		Marking Code		Reverse Working Voltage	Reverse Breakdown Voltage VB(V)			Reverse Leakage (Max)	Reverse Clamping Voltage (Max)	Peak Pulse Current (Max)
Uni.	Bi.	Uni.	Bi.	VRWM(V)	Min.	Max.	@Iτ(mA)	l <sub>R</sub> (uA) @V <sub>R</sub>	V <sub>C</sub> (V) @I <sub>PP</sub>	(max) I <sub>PP</sub> (A)
5.0SMCJ5.0A-AT	5.0SMCJ5.0CA-AT	5DKX	5DMR	5.0	6.40	7.00	10	1050	9.2	543.6
5.0SMCJ6.0A-AT	5.0SMCJ6.0CA-AT	5DKY	5DMS	6.0	6.67	7.37	10	1050	10.3	485.5
5.0SMCJ6.5A-AT	5.0SMCJ6.5CA-AT	5DKZ	5DMT	6.5	7.22	7.98	10	750	11.2	446.5
5.0SMCJ7.0A-AT	5.0SMCJ7.0CA-AT	5DLA	5DMU	7.0	7.78	8.60	10	300	12.0	416.8
5.0SMCJ7.5A-AT	5.0SMCJ7.5CA-AT	5DLB	5DMV	7.5	8.33	9.21	1	150	12.9	387.7
5.0SMCJ8.0A-AT	5.0SMCJ8.0CA-AT	5DLC	5DMW	8.0	8.89	9.83	1	70	13.6	367.7
5.0SMCJ8.5A-AT	5.0SMCJ8.5CA-AT	5DLD	5DMX	8.5	9.44	10.4	1	30	14.4	347.3
5.0SMCJ9.0A-AT	5.0SMCJ9.0CA-AT	5DLE	5DMY	9.0	10.0	11.1	1	12	15.4	324.8
5.0SMCJ10A-AT	5.0SMCJ10CA-AT	5DLF	5DMZ	10	11.1	12.3	1	6	17.0	294.2
5.0SMCJ11A-AT	5.0SMCJ11CA-AT	5DLG	5DNA	11	12.2	13.5	1	2	18.2	274.8
5.0SMCJ12A-AT	5.0SMCJ12CA-AT	5DLH	5DNB	12	13.3	14.7	1	2	19.9	252
5.0SMCJ13A-AT	5.0SMCJ13CA-AT	5DLI	5DNC	13	14.4	15.9	1	2	21.5	233
5.0SMCJ14A-AT	5.0SMCJ14CA-AT	5DLJ	5DND	14	15.6	17.2	1	2	23.2	216
5.0SMCJ15A-AT	5.0SMCJ15CA-AT	5DLK	5DNE	15	16.7	18.5	1	2	24.4	205
5.0SMCJ16A-AT	5.0SMCJ16CA-AT	5DLL	5DNF	16	17.8	19.7	1	2	26.0	193
5.0SMCJ17A-AT	5.0SMCJ17CA-AT	5DLM	5DNG	17	18.9	20.9	1	2	27.6	181
5.0SMCJ18A-AT	5.0SMCJ18CA-AT	5DLN	5DNH	18	20.0	22.1	1	2	29.2	172
5.0SMCJ20A-AT	5.0SMCJ20CA-AT	5DLO	5DNI	20	22.2	24.5	1	2	32.4	155
5.0SMCJ22A-AT	5.0SMCJ22CA-AT	5DLP	5DNJ	22	24.4	26.9	1	2	35.5	141
5.0SMCJ24A-AT	5.0SMCJ24CA-AT	5DLQ	5DNK	24	26.7	29.5	1	2	38.9	129
5.0SMCJ26A-AT	5.0SMCJ26CA-AT	5DLR	5DNL	26	28.9	31.9	1	2	42.1	119
5.0SMCJ28A-AT	5.0SMCJ28CA-AT	5DLS	5DNM	28	31.1	34.4	1	2	45.4	110
5.0SMCJ30A-AT	5.0SMCJ30CA-AT	5DLT	5DNN	30	33.3	36.8	1	2	48.4	103
5.0SMCJ33A-AT	5.0SMCJ33CA-AT	5DLU	5DNO	33	36.7	40.6	1	2	53.3	93.9
5.0SMCJ36A-AT	5.0SMCJ36CA-AT	5DLV	5DNP	36	40.0	44.2	1	2	58.1	86.1
5.0SMCJ40A-AT	5.0SMCJ40CA-AT	5DLW	5DNQ	40	44.4	49.1	1	2	64.5	77.6
5.0SMCJ43A-AT	5.0SMCJ43CA-AT	5DLX	5DNR	43	47.8	52.8	1	2	69.4	72.1
5.0SMCJ45A-AT	5.0SMCJ45CA-AT	5DLY	5DNS	45	50.0	55.3	1	2	72.7	68.8
5.0SMCJ48A-AT	5.0SMCJ48CA-AT	5DLZ	5DNT	48	53.3	58.9	1	2	77.4	64.7
5.0SMCJ51A-AT	5.0SMCJ51CA-AT	5DMA	5DNU	51	56.7	62.7	1	2	82.4	60.7
5.0SMCJ54A-AT	5.0SMCJ54CA-AT	5DMB	5DNV	54	60.0	66.3	1	2	87.1	57.5
5.0SMCJ58A-AT	5.0SMCJ58CA-AT	5DMC	5DNW	58	64.4	71.2	1	2	93.6	53.5
5.0SMCJ60A-AT	5.0SMCJ60CA-AT	5DMD	5DNX	60	66.7	73.7	1	2	96.8	51.7
5.0SMCJ64A-AT	5.0SMCJ64CA-AT	5DME	5DNY	64	71.1	78.6	1	2	103	48.6
5.0SMCJ70A-AT	5.0SMCJ70CA-AT	5DMF	5DNZ	70	77.8	86.0	1	2	113	44.3
5.0SMCJ75A-AT	5.0SMCJ75CA-AT	5DMG	5DOA	75	83.3	92.1	1	2	121	41.4
5.0SMCJ78A-AT	5.0SMCJ78CA-AT	5DMH	5DOB	78	86.7	95.8	1	2	126	39.7
5.0SMCJ85A-AT	5.0SMCJ85CA-AT	5DMI	5DOC	85	94.4	104	1	2	137	36.5
5.0SMCJ90A-AT	-	5DMJ	-	90	100	111	1	2	146	34.3
5.0SMCJ100A-AT	-	5DMK	-	100	111	123	1	2	162	30.9
5.0SMCJ110A-AT	-	5DML	-	110	122	135	1	2	177	28.3
5.0SMCJ120A-AT	-	5DMM	-	120	133	147	1	2	193	26.0
5.0SMCJ130A-AT	-	5DMN	-	130	144	159	1	2	209	24.0
5.0SMCJ150A-AT	-	5DMO	-	150	167	185	1	2	243	20.6
5.0SMCJ160A-AT	-	5DMP	-	160	178	197	1	2	259	19.3
5.0SMCJ170A-AT	-	5DMQ	-	170	189	209	1	2	275	18.2

#### Note:

1. Suffix "A" denotes 5% tolerance device.

2. Add suffix "CA" after part number to specify bi-directional devices.

3. The IR limit is double for bi-directional devices.



### **Rating and Characteristic Curves**



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