

/ Revised record

A	2019-1-12					
B	2021-2-9	5/9	<div><div>Td</div><div>V_F 5V</div><div>R_{θJA} R_{θJL} P_D</div></div>			

5.0V~440V SMC

Glass passivated junction, Low inductance, For surface mounted applications, HF product.



Unipolar

Bipolar

$\frac{d}{dt}$

/ Absolute Maximum Rating (T_a = 25

Parameter	Symbol	Rating	Unit
Peak Pulse Power Dissipation on 10/1000 us waveform	P _{PPM}	1500	W
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM} (UNI)	200	A
Power dissipation on Infinite heat sink at T _A =50 °C	P _D	6.5	W
Maximum instantaneous forward voltage at 100 A for unidirectional only	V _F	3.5	V
Typical Thermal Resistance Junction to Ambient(Note 1)	R _{θJA} R _{θJL}	75 15	°C/W
Operating Junction and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

Note:

1. Mounted on 8 mm² (0.13mm thick) land areas.

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Maximum Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V _{BR} @ I _T		I _T	I _R @ V _{RRM}	V _C @ I _{PP}	I _{PP}	SMC	
		V _{RRM}	Min	Max					Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
SMCJ5.0A	SMCJ5.0CA	5	6.4	7	10	800	9.2	163	GDE	BDE
SMCJ6.0A	SMCJ6.0CA	6	6.67	7.37	10	800	10.3	145.7	GDG	BDG
SMCJ6.5A	SMCJ6.5CA	6.5	7.22	7.98	10	500	11.2	134	GDK	BDK
SMCJ7.0A	SMCJ7.0CA	7	7.78	8.6	10	200	12.0	125	GDM	BDM
SMCJ7.5A	SMCJ7.5CA	7.5	8.33	9.21	1	100	12.9	116.3	GDP	BDP
SMCJ8.0A	SMCJ8.0CA	8	8.89	9.83	1	50	13.6	110.3	GDR	BDR
SMCJ8.5A	SMCJ8.5CA	8.5	9.44	10.4	1	20	14.4	104.2	GDT	BDT
SMCJ9.0A	SMCJ9.0CA	9	10	11.1	1	10	15.4	97.4	GDV	BDV
SMCJ10A	SMCJ10CA	10	11.1	12.3	1	5	17.0	88.3	GDX	BDX
SMCJ11A	SMCJ11CA	11	12.2	13.5	1	1	18.2	82.5	GDZ	BDZ
SMCJ12A	SMCJ12CA	12	13.3	14.7	1	1	19.9	75.4	GEE	BEE
SMCJ13A	SMCJ13CA	13	14.4	15.9	1	1	21.5	69.8	GEG	BEG
SMCJ14A	SMCJ14CA	14	15.6	17.2	1	1	23.2	64.7	GEK	BEK
SMCJ15A	SMCJ15CA									

SMCJ Series

Rev. B Feb.-2021

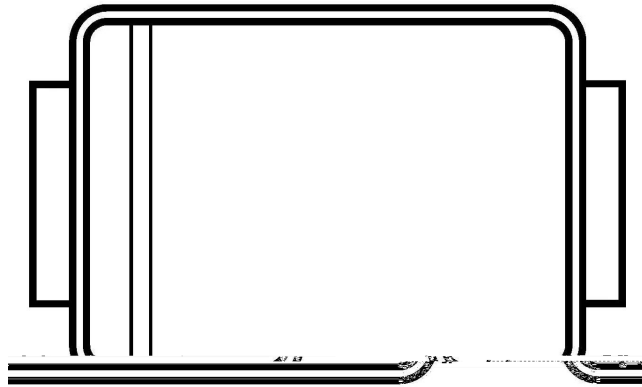


DATA SHEET

Type	Reverse Stand-off Voltage	Breakdown Voltage	Test Current	Reverse Leakage	Max. Clamp
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/ Marking Instructions



SMCJ Series