



10/1000 $\mu$ s

1500W

5.0V~440V SMC

Surface mount transient voltage suppressor, 1500W peak pulse power capability at 10/1000 $\mu$ s waveform, Reverse Stand-Off Voltage: 5.0V~440V, SMC package.

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

General purpose.



Unipolar



Bipolar

**/ Absolute M um ng(T 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 $T_A=50\text{ }^\circ\text{C}$	$P_D$	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)	$R_{JA}$ $R_{JL}$	75 15	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	$^\circ\text{C}$

Note:

1. Measured on 8 mm<sup>2</sup> (0.13mm thick) land areas.

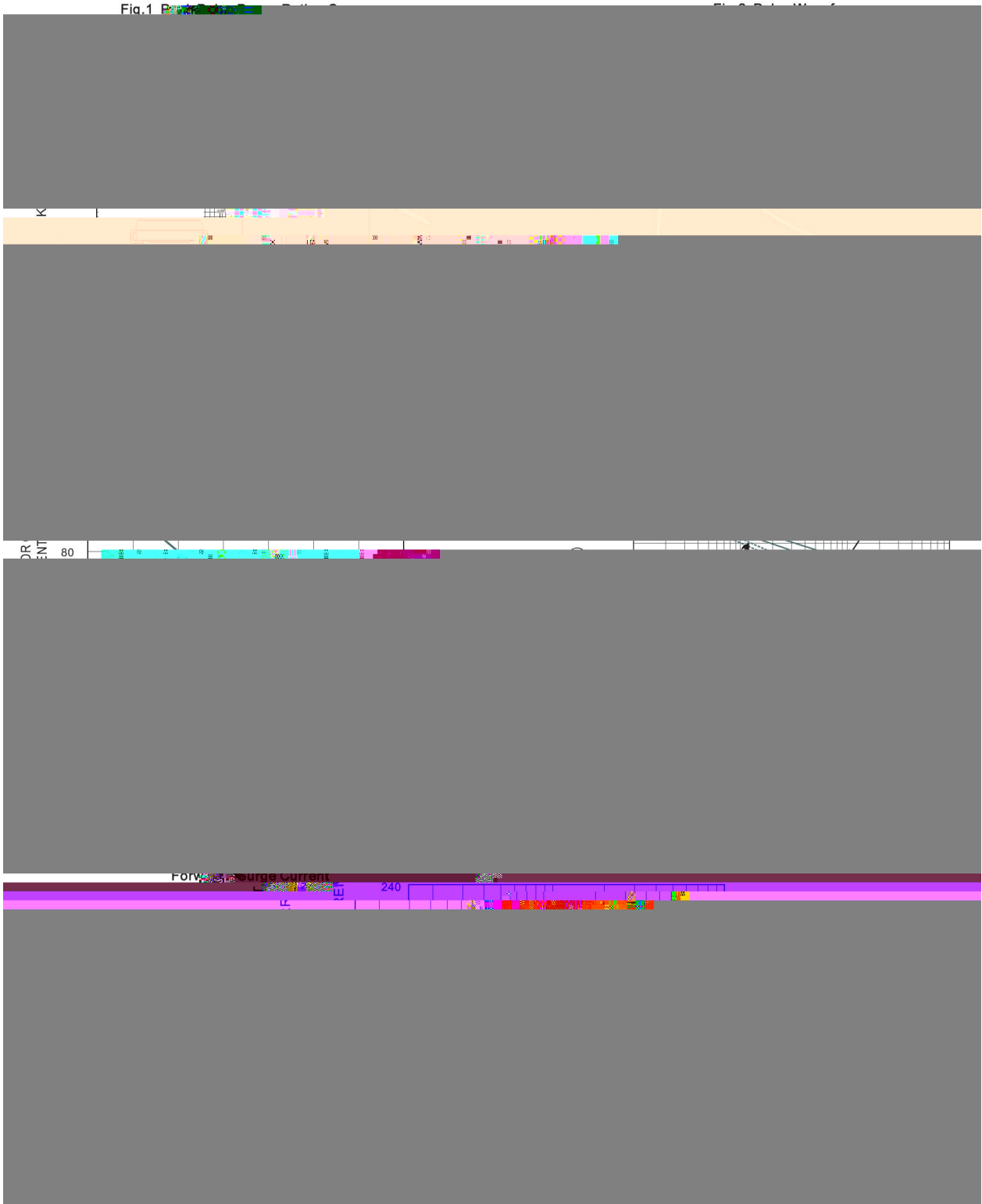
Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Maximum Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V <sub>BR</sub> @ I <sub>T</sub>						SMC	
		V <sub>R<sub>RRM</sub></sub>	Min	Max	I <sub>T</sub>	I <sub>R</sub> @ V <sub>R<sub>RRM</sub></sub>	V <sub>C</sub> @ I <sub>PP</sub>	I <sub>PP</sub>	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									



Type	Reverse Stand-off Voltage	Breakdown Voltage	Test Current	Reverse Leakage	Max. Clamp
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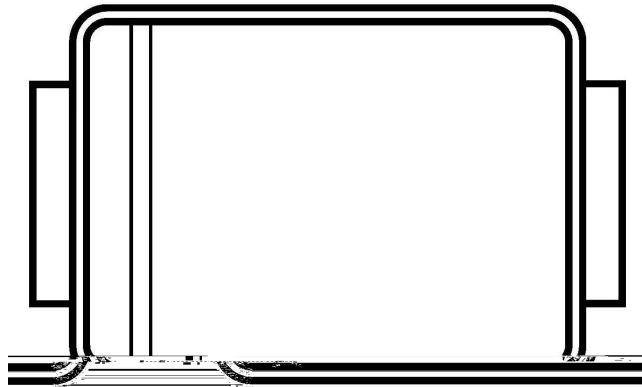
/ Electrical Characteristic Curve

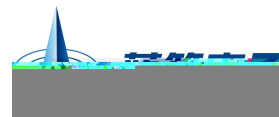






**/ Marking Instructions**





## **SMCJ Series**