

**SURFACE MOUNT
UNIDIRECTIONAL AND BIDIRECTIONAL
TRANSIENT VOLTAGE SUPPRESSORS**

STAND-OFF VOLTAGE - **5.0** to **75** Volts
POWER DISSIPATION - **1500** WATTS

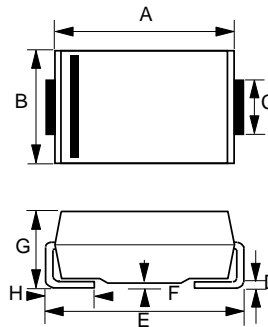
FEATURES

- For surface mounted applications
- Reliable low cost construction utilizing molded plastic technique
- Typical IR less than 1uA above 10V
- Fast response time: typically less than 1.0ns for Uni-direction,less than 5.0ns for Bi-direction,form 0 Volts to BV min
- RoHS compliant
- AEC-Q101 qualified
- PPAP capable

MECHANICAL DATA

Case : Molded plastic
Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
Polarity : by cathode band denotes uni-directional device
none cathode band denotes bi-directional device
Weight : 0.007 ounces, 0.21 gram

SMC



SMC		
DIM.	MIN.	MAX.
A	6.60	7.11
B	5.59	6.22
C	2.92	3.18
D	0.15	0.31
E	7.75	8.13
F	0.05	0.20
G	2.01	2.40
H	0.76	1.52

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

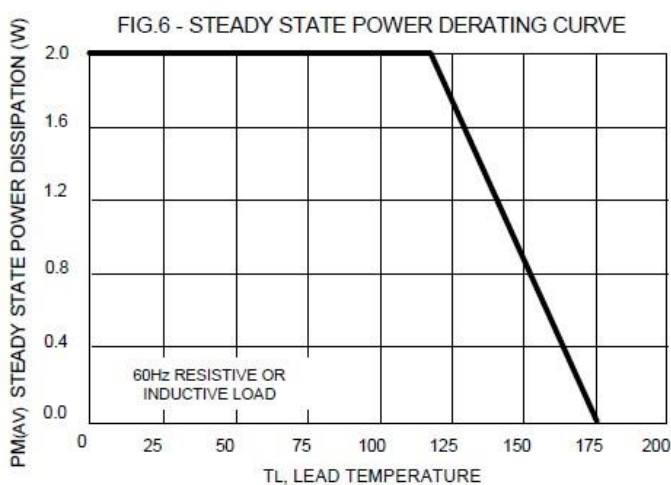
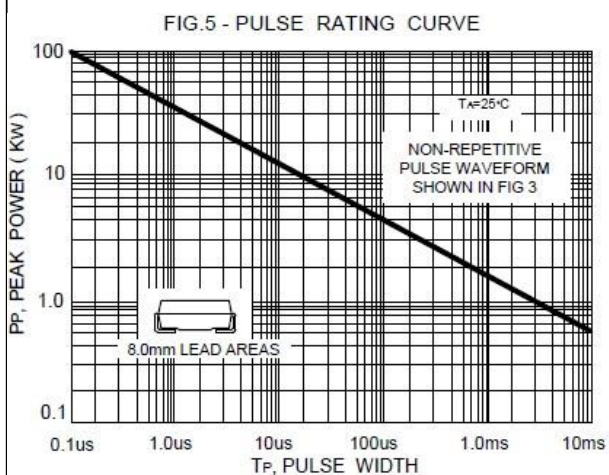
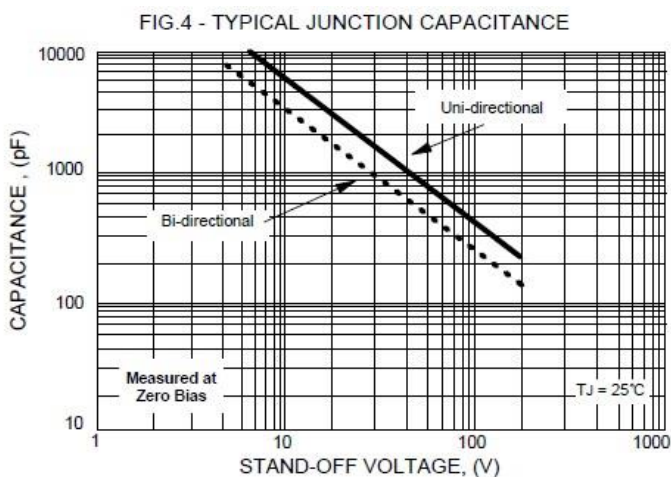
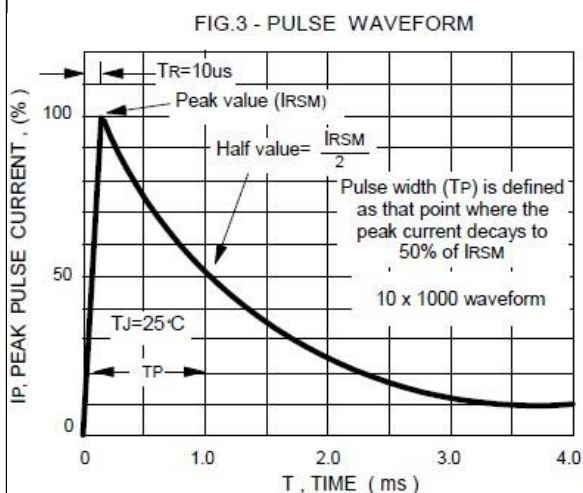
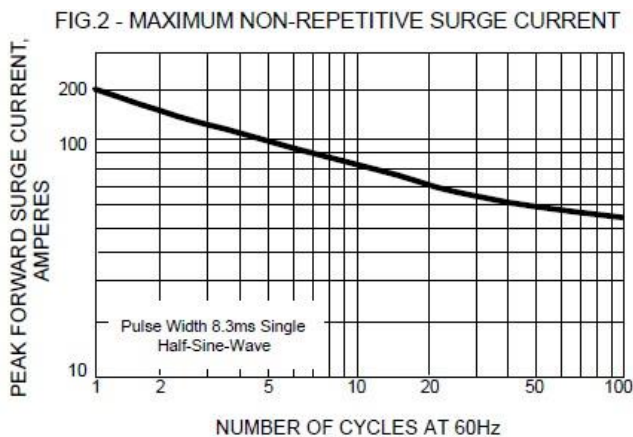
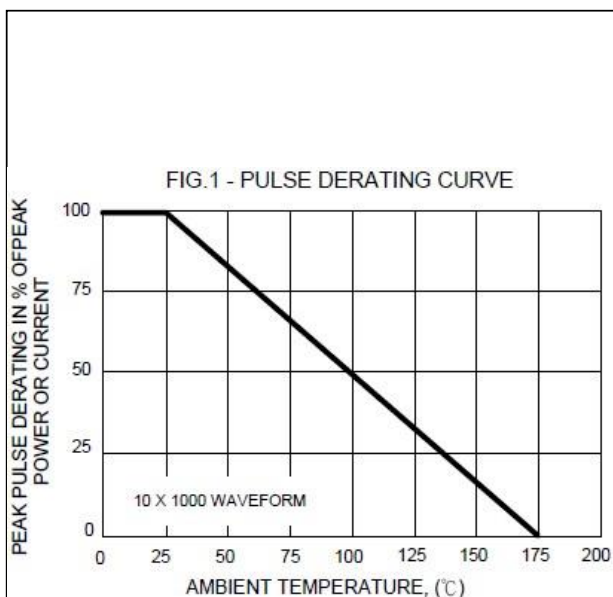
Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	VALUE	Units
PEAK POWER DISSIPATION AT TA = 25 C, TP = 1ms (Note 1)	PPK	1500	WATTS
Peak Forward Surge Current 8.3ms single half sine-wave @ TJ =25 C,(Note 2)	IFSM	200	AMPS
Steady State Power Dissipation, with PCB	PM(AV)	2.0	WATTS
Maximum Instantaneous forward voltage at 16A (Note2, 3)	VF	2.0	Volts
Operating Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	TSTG	-55 to +175	°C

REV.0 Nov-2016, KSIA12

NOTES :

1. Non-repetitive current pulse, per fig. 5 and derated above TA= 25 °C per fig. 1
2. Only for uni-directional units.
3. VF max=2.0V at IF=16 A 300us square wave pulse



Device Uni-directional	Device Bi-directional	Device Marking code		Working Peak Reverse Voltage VRWM(Volts)	Breakdown voltage VBR Volts			Maximum Reverse Voltage at IRSM (Clamping Voltage) VRSM(VOLTS)	Maximum Reverse Surge Current IRSM(Am)	Maximum Reverse Leakage at VRWM IR (uA)
		(UNI)	(BI)		Min.	Max.	@IT(mA)			
ASMCJ5.0A	ASMCJ5.0CA	AGDE	ABDE	5.0	6.40	7.07	10	9.2	163.0	1000
ASMCJ6.0A	ASMCJ6.0CA	AGDG	ABDG	6.0	6.67	7.37	10	10.3	145.6	1000
ASMCJ6.5A	ASMCJ6.5CA	AGDK	ABDK	6.5	7.22	7.98	10	11.2	133.9	500
ASMCJ7.0A	ASMCJ7.0CA	AGDM	ABDM	7.0	7.78	8.60	10	12.0	125.0	200
ASMCJ7.5A	ASMCJ7.5CA	AGDP	ABDP	7.5	8.33	9.21	1.0	12.9	116.3	100
ASMCJ8.0A	ASMCJ8.0CA	AGDR	ABDR	8.0	8.89	9.83	1.0	13.6	110.3	50.0
ASMCJ8.5A	ASMCJ8.5CA	AGDT	ABDT	8.5	9.44	10.43	1.0	14.4	104.2	20.0
ASMCJ9.0A	ASMCJ9.0CA	AGDV	ABDV	9.0	10.0	11.1	1.0	15.4	97.4	10.0
ASMCJ10A	ASMCJ10CA	AGDX	ABDX	10	11.1	12.3	1.0	17.0	88.2	5.0
ASMCJ11A	ASMCJ11CA	AGDZ	ABDZ	11	12.2	13.5	1.0	18.2	82.4	0.5
ASMCJ12A	ASMCJ12CA	AGEE	ABEE	12	13.3	14.7	1.0	19.9	75.3	0.5
ASMCJ13A	ASMCJ13CA	AGEG	ABEG	13	14.4	15.9	1.0	21.5	69.7	0.5
ASMCJ14A	ASMCJ14CA	AGEK	ABEK	14	15.6	17.2	1.0	23.2	64.7	0.5
ASMCJ15A	ASMCJ15CA	AGEM	ABEM	15	16.7	18.5	1.0	24.4	61.5	0.5
ASMCJ16A	ASMCJ16CA	AGEP	ABEP	16	17.8	19.7	1.0	26.0	57.7	0.5
ASMCJ17A	ASMCJ17CA	AGER	ABER	17	18.9	20.9	1.0	27.6	53.3	0.5
ASMCJ18A	ASMCJ18CA	AGET	ABET	18	20.0	22.1	1.0	29.2	51.4	0.5
ASMCJ20A	ASMCJ20CA	AGEV	ABEV	20	22.2	24.5	1.0	32.4	46.3	0.5
ASMCJ22A	ASMCJ22CA	AGEX	ABEX	22	24.4	27.0	1.0	35.5	42.2	0.5
ASMCJ24A	ASMCJ24CA	AGEZ	ABEZ	24	26.7	29.5	1.0	38.9	38.6	0.5
ASMCJ26A	ASMCJ26CA	AGFE	ABFE	26	28.9	31.9	1.0	42.1	35.6	0.5
ASMCJ28A	ASMCJ28CA	AGFG	ABFG	28	31.1	34.4	1.0	45.4	33.0	0.5
ASMCJ30A	ASMCJ30CA	AGFK	ABFK	30	33.3	36.8	1.0	48.4	31.0	0.5
ASMCJ33A	ASMCJ33CA	AGFM	ABFM	33	36.7	40.6	1.0	53.3	28.1	0.5
ASMCJ33A	ASMCJ33CAC	AGFM	ABFMC	33	36.7	40.6	1.0	53.3	28.1	0.5
ASMCJ36A	ASMCJ36CA	AGFP	ABFP	36	40.0	44.2	1.0	58.1	25.8	0.5
ASMCJ40A	ASMCJ40CA	AGFR	ABFR	40	44.4	49.1	1.0	64.5	23.3	0.5
ASMCJ43A	ASMCJ43CA	AGFT	ABFT	43	47.8	52.8	1.0	69.4	21.6	0.5
ASMCJ45A	ASMCJ45CA	AGFV	ABFV	45	50.0	55.3	1.0	72.7	20.6	0.5
ASMCJ48A	ASMCJ48CA	AGFX	ABFX	48	53.3	58.9	1.0	77.4	19.4	0.5
ASMCJ51A	ASMCJ51CA	AGFZ	ABFZ	51	56.7	62.7	1.0	82.4	18.2	0.5
ASMCJ54A	ASMCJ54CA	AGGE	ABGE	54	60.0	66.3	1.0	87.1	17.2	0.5
ASMCJ58A	ASMCJ58CA	AGGG	ABGG	58	64.4	71.2	1.0	93.6	16.0	0.5
ASMCJ60A	ASMCJ60CA	AGGK	ABGK	60	66.7	73.7	1.0	96.8	15.5	0.5
ASMCJ64A	ASMCJ64CA	AGGM	ABGM	64	71.1	78.6	1.0	103	14.6	0.5
ASMCJ70A	ASMCJ70CA	AGGP	ABGP	70	77.8	86.0	1.0	113	13.3	0.5
ASMCJ75A	ASMCJ75CA	AGGR	ABGR	75	83.3	92.1	1.0	121	12.4	0.5

NOTE :

Suffix 'A ' denotes 5% tolerance device.

1) Add suffix 'C ' or ' CA ' after part number to specify Bi-directional devices.

2) The IR limit is double for Bi-Directional devices.

3) ASMCJ33CA for special customer used.

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