

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

STAND-OFF VOLTAGE - **5.0** to **75** Volts
POWER DISSIPATION - **600** WATTS

FEATURES

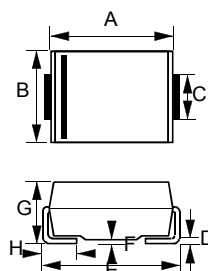
- For surface mounted applications
- Reliable low cost construction utilizing molded plastic technique
- Typical IR less than 1uA above 10V
- Fast response time: typically less than 1.0ns for Uni-direction, less than 5.0ns for Bi-direction, from 0 Volts to BV min
- RoHS compliant
- AEC-Q101 qualified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

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 : 0.003 ounces, 0.093 gram



SMB



SMB		
DIM.	MIN.	MAX.
A	4.06	4.57
B	3.30	3.94
C	1.96	2.21
D	0.15	0.31
E	5.21	5.59
F	0.05	0.20
G	2.01	2.50
H	0.76	1.52
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

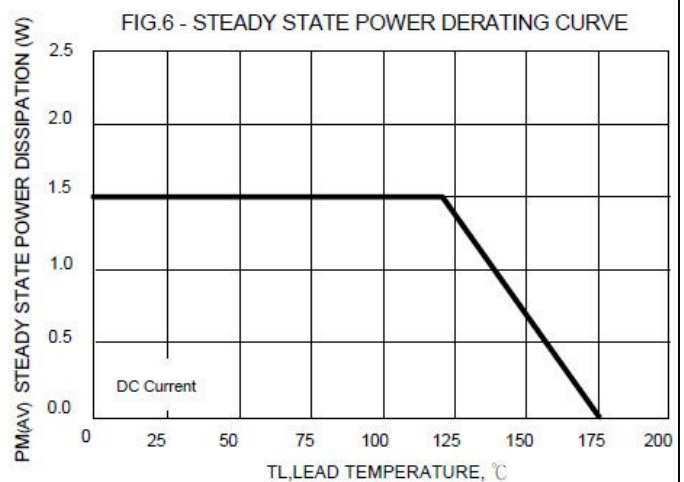
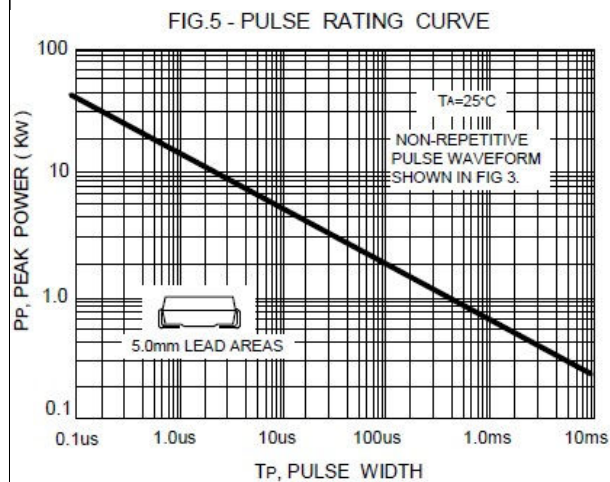
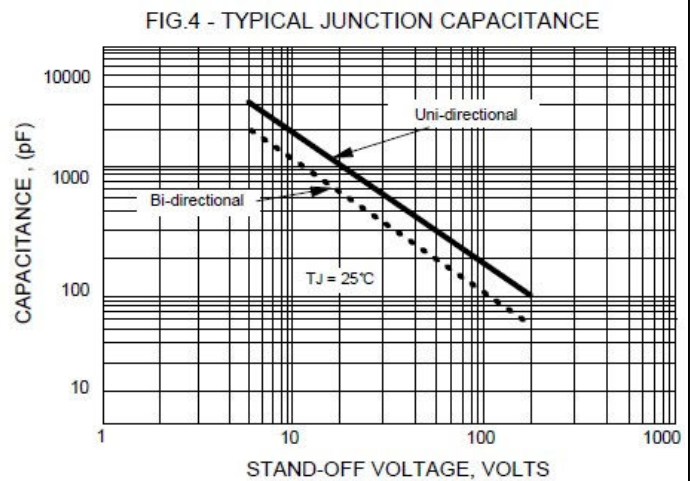
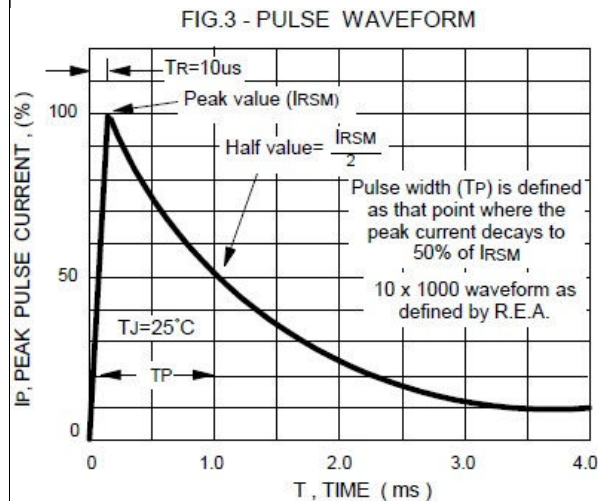
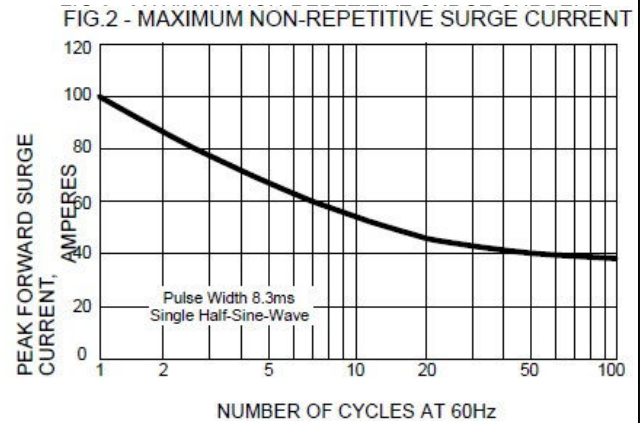
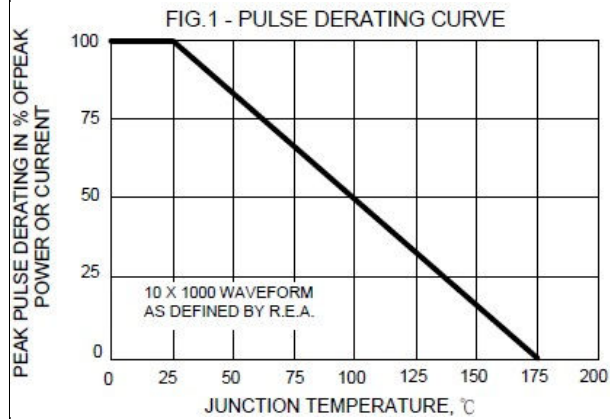
Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	VALUE	Units
PEAK POWER DISSIPATION AT TA = 25 C, TP = 1ms (Note 1)	PPK	600	WATTS
Peak Forward Surge Current 8.3ms single half sine-wave @ TJ =25 C, (Note 2)	IFSM	90	AMPS
Steady State Power Dissipation, with PCB	PM(AV)	1.5	WATTS
Maximum Instantaneous forward voltage at 16A (Note2, 3)	VF	2.5	Volts
Typical Thermal Resistance	RθJA	90	°C/W
	RθJC	25	
Operating Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	TSTG	-55 to +175	°C

- NOTES : 1. Non-repetitive current pulse, per fig. 3 and derated above TJ= 25 °C per fig.1.
2. Only for unidirectional units.
3. VF max=2.5V at IF=16 A 300us square wave pulse.

REV.0 Aug-2017, KSIA06

Please be aware that an **Important Notice and Disclaimer** concerning availability, disclaimers, and use in critical applications of LSC products thereto appears at the end of this Data Sheet.



Device Uni- Directional	Device Bi- Directional	Device Marking Code		Reverse Standoff Voltage	Breakdown Voltage VBR Volts			Max. Clamping Voltage @Ipp	Max. Peak Pulse Current	Max. Reverse Leake @ VR
		(UNI)	(BI)		Min.	Max.	@It (mA)			
ASMBJ5.0A	ASMBJ5.0CA	AKE	AAE	5.0	6.40	7.07	10	9.2	65.2	800
ASMBJ6.0A	ASMBJ6.0CA	AKG	AAG	6.0	6.67	7.37	10	10.3	58.3	800
ASMBJ6.5A	ASMBJ6.5CA	AKK	AAK	6.5	7.22	7.98	10	11.2	53.6	500
ASMBJ7.0A	ASMBJ7.0CA	AKM	AAM	7.0	7.78	8.60	1.0	12.0	50.0	200
ASMBJ7.5A	ASMBJ7.5CA	AKP	AAP	7.5	8.33	9.21	1.0	12.9	46.5	100
ASMBJ8.0A	ASMBJ8.0CA	AKR	AAR	8.0	8.89	9.83	1.0	13.6	44.1	50.0
ASMBJ8.5A	ASMBJ8.5CA	AKT	AAR	8.5	9.44	10.4	1.0	14.4	41.7	20.0
ASMBJ9.0A	ASMBJ9.0CA	AKV	AAV	9.0	10.0	11.1	1.0	15.4	39.0	10.0
ASMBJ10A	ASMBJ10CA	AKX	AAX	10.0	11.1	12.3	1.0	17.0	35.3	0.5
ASMBJ11A	ASMBJ11CA	AKZ	AAZ	11.0	12.2	13.5	1.0	18.2	33.0	0.5
ASMBJ12A	ASMBJ12CA	ALE	ABE	12.0	13.3	14.7	1.0	19.9	30.2	0.5
ASMBJ13A	ASMBJ13CA	ALG	ABG	13.0	14.4	15.9	1.0	21.5	27.9	0.5
ASMBJ14A	ASMBJ14CA	ALK	ABK	14.0	15.6	17.2	1.0	23.2	25.8	0.5
ASMBJ15A	ASMBJ15CA	ALM	ABM	15.0	16.7	18.5	1.0	24.4	24.0	0.5
ASMBJ16A	ASMBJ16CA	ALP	ABP	16.0	17.8	19.7	1.0	26.0	23.1	0.5
ASMBJ17A	ASMBJ17CA	ALR	ABR	17.0	18.9	20.9	1.0	27.6	21.7	0.5
ASMBJ18A	ASMBJ18CA	ALT	ABR	18.0	20.0	22.1	1.0	29.2	20.5	0.5
ASMBJ20A	ASMBJ20CA	ALV	ABV	20.0	22.2	24.5	1.0	32.4	18.5	0.5
ASMBJ22A	ASMBJ22CA	ALX	ABX	22.0	24.4	27.0	1.0	35.5	16.9	0.5
ASMBJ24A	ASMBJ24CA	ALZ	ABZ	24.0	26.7	29.5	1.0	38.9	15.4	0.5
ASMBJ26A	ASMBJ26CA	AME	ACE	26.0	28.9	31.9	1.0	42.1	14.2	0.5
ASMBJ28A	ASMBJ28CA	AMG	ACG	28.0	31.1	34.4	1.0	45.4	13.2	0.5
ASMBJ30A	ASMBJ30CA	AMK	ACK	30.0	33.3	36.8	1.0	48.4	12.4	0.5
ASMBJ33A	ASMBJ33CA	AMM	ACM	33.0	36.7	40.6	1.0	53.3	11.3	0.5
ASMBJ36A	ASMBJ36CA	AMP	ACP	36.0	40.0	44.2	1.0	58.1	10.3	0.5
ASMBJ40A	ASMBJ40CA	AMR	ACR	40.0	44.4	49.1	1.0	64.5	9.3	0.5
ASMBJ43A	ASMBJ43CA	AMT	ACR	43.0	47.8	52.8	1.0	69.4	8.6	0.5
ASMBJ45A	ASMBJ45CA	AMV	ACV	45.0	50.0	55.3	1.0	72.7	8.3	0.5
ASMBJ48A	ASMBJ48CA	AMX	ACX	48.0	53.3	58.9	1.0	77.4	7.7	0.5
ASMBJ51A	ASMBJ51CA	AMZ	ACZ	51.0	56.7	62.7	1.0	82.4	7.3	0.5
ASMBJ54A	ASMBJ54CA	ANE	ADE	54.0	60.0	66.3	1.0	87.1	6.9	0.5
ASMBJ58A	ASMBJ58CA	ANG	ADG	58.0	64.4	71.2	1.0	93.6	6.4	0.5
ASMBJ60A	ASMBJ60CA	ANK	ADK	60.0	66.7	73.7	1.0	96.8	6.2	0.5
ASMBJ61A	ASMBJ61CA	ANL	ADL	60.5	66.6	71.9	1.0	97.6	6.1	0.5
ASMBJ64A	ASMBJ64CA	ANM	ADM	64.0	71.1	78.6	1.0	103	5.8	0.5
ASMBJ70A	ASMBJ70CA	ANP	ADP	70.0	77.8	86.0	1.0	113	5.3	0.5
ASMBJ75A	ASMBJ75CA	ANR	ADR	75.0	83.3	92.1	1.0	121	4.9	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.

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