

Surface mount transient voltage suppressor power 600 watts

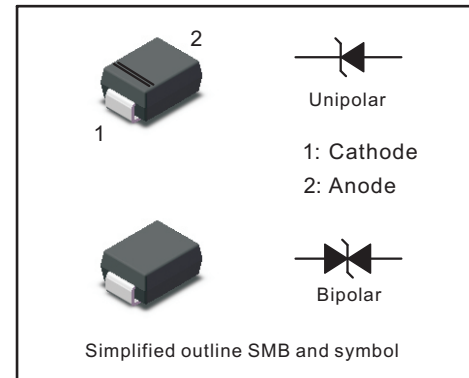
Stand-Off Voltage : 5.0V~440V

## FEATURES

- For surface mounted applications in order to optimize board space.
- Low profile package
- Glass passivated junction
- Low inductance
- Plastic package has Underwriters Laboratory Flammability

## MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.1g / 0.0034oz



## Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

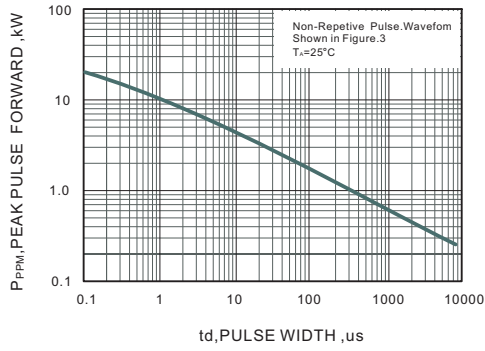
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 us waveform (Note1,Note2, Fig.1).	$P_{PPM}$	600	W
Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load, (JEDEC Method) (Note 3,Fig4).	$I_{FSM}$ (UNI)	100	A
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)	$I_{PPM}$	see Table 1	A
Typical Junction capacitance at VR=4V, f=1MHz	$C_J$	390	pF
ESD Voltage per IEC6100-4-2	Contact	$V_{ESD1}$	±30
	Air	$V_{ESD2}$	±30
Typical Thermal Resistance Junction to Ambient(Note 2)	$R_{\theta JA}$	100	°C/W
Operating Junction Temperature and Storage Temperature Range	$T_j, T_{stg}$	-65 ~ +150	°C

## NOTES:

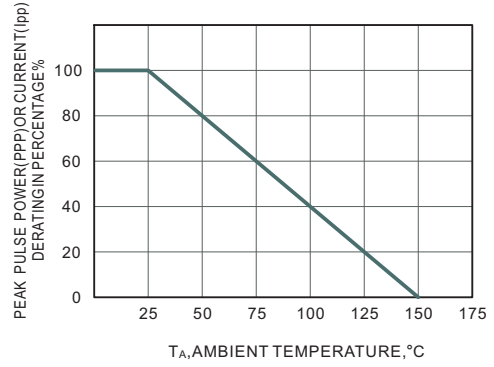
1. Non-repetitive current pulse, per Fig.3 and derated above  $T_A = 25^\circ\text{C}$  per Fig. 2.
2. Mounted on 5 mm<sup>2</sup> (0.13mm thick) land areas.
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum.
4. Peak pulse power waveform is 10/1000μS.

Type		Reverse Stand-off Voltage $V_{RMW}$	Breakdown Voltage $V_{BR} @ I_T$		Test Current $I_T$	Maximum Reverse Leakage $\mu A$	Max. Clamp Voltage $V_C @ I_{PP}$	Peak Pulse Current $I_{PP}$	Package	
			Min	Max					SMB	
UNI	BI	V	V	V	mA	$\mu A$	V	A	Device Marking Ccode	
									UNI	BI
<b>600W Transient Voltage Suppresso</b>										
SMBJ5.0A	SMBJ5.0CA	5	6.4	7	10	800	9.2	65.3	KE	AE
SMBJ6.0A	SMBJ6.0CA	6	6.67	7.37	10	800	10.3	58.3	KG	AG
SMBJ6.5A	SMBJ6.5CA	6.5	7.22	7.98	10	500	11.2	53.6	KK	AK
SMBJ7.0A	SMBJ7.0CA	7	7.78	8.6	10	200	12	50	KM	AM
SMBJ7.5A	SMBJ7.5CA	7.5	8.33	9.21	1	100	12.9	46.6	KP	AP
SMBJ8.0A	SMBJ8.0CA	8	8.89	9.83	1	50	13.6	44.2	KR	AR
SMBJ8.5A	SMBJ8.5CA	8.5	9.44	10.4	1	20	14.4	41.7	KT	AT
SMBJ9.0A	SMBJ9.0CA	9	10	11.1	1	10	15.4	39	KV	AV
SMBJ10A	SMBJ10CA	10	11.1	12.3	1	5	17	35.3	KX	AX
SMBJ11A	SMBJ11CA	11	12.2	13.5	1	1	18.2	33	KZ	AZ
SMBJ12A	SMBJ12CA	12	13.3	14.7	1	1	19.9	30.2	LE	BE
SMBJ13A	SMBJ13CA	13	14.4	15.9	1	1	21.5	28	LG	BG
SMBJ14A	SMBJ14CA	14	15.6	17.2	1	1	23.2	25.9	LK	BK
SMBJ15A	SMBJ15CA	15	16.7	18.5	1	1	24.4	24.6	LM	BM
SMBJ16A	SMBJ16CA	16	17.8	19.7	1	1	26	23.1	LP	BP
SMBJ17A	SMBJ17CA	17	18.9	20.9	1	1	27.6	21.8	LR	BR
SMBJ18A	SMBJ18CA	18	20	22.1	1	1	29.2	20.6	LT	BT
SMBJ20A	SMBJ20CA	20	22.2	24.5	1	1	32.4	18.6	LV	BV
SMBJ22A	SMBJ22CA	22	24.4	26.9	1	1	35.5	16.9	LX	BX
SMBJ24A	SMBJ24CA	24	26.7	29.5	1	1	38.9	15.5	LZ	BZ
SMBJ26A	SMBJ26CA	26	28.9	31.9	1	1	42.1	14.3	ME	CE
SMBJ28A	SMBJ28CA	28	31.1	34.4	1	1	45.4	13.3	MG	CG
SMBJ30A	SMBJ30CA	30	33.3	36.8	1	1	48.4	12.4	MK	CK
SMBJ33A	SMBJ33CA	33	36.7	40.6	1	1	53.3	11.3	MM	CM
SMBJ36A	SMBJ36CA	36	40	44.2	1	1	58.1	10.4	MP	CP
SMBJ40A	SMBJ40CA	40	44.4	49.1	1	1	64.5	9.3	MR	CR
SMBJ43A	SMBJ43CA	43	47.8	52.8	1	1	69.4	8.7	MT	CT
SMBJ45A	SMBJ45CA	45	50	55.3	1	1	72.7	8.3	MV	CV
SMBJ48A	SMBJ48CA	48	53.3	58.9	1	1	77.4	7.8	MX	CX
SMBJ51A	SMBJ51CA	51	56.7	62.7	1	1	82.4	7.3	MZ	CZ
SMBJ54A	SMBJ54CA	54	60	66.3	1	1	87.1	6.9	NE	DE
SMBJ58A	SMBJ58CA	58	64.4	71.2	1	1	93.6	6.5	NG	DG
SMBJ60A	SMBJ60CA	60	66.7	73.7	1	1	96.8	6.2	NK	DK
SMBJ64A	SMBJ64CA	64	71.1	78.6	1	1	103	5.9	NM	DM
SMBJ70A	SMBJ70CA	70	77.8	86	1	1	113	5.3	NP	DP
SMBJ75A	SMBJ75CA	75	83.3	92.1	1	1	121	5	NR	DR
SMBJ78A	SMBJ78CA	78	86.7	95.8	1	1	126	4.8	NT	DT
SMBJ85A	SMBJ85CA	85	94.4	104	1	1	137	4.4	NV	DV
SMBJ90A	SMBJ90CA	90	100	111	1	1	146	4.1	NX	DX
SMBJ100A	SMBJ100CA	100	111	123	1	1	162	3.7	NZ	DZ
SMBJ110A	SMBJ110CA	110	122	135	1	1	177	3.4	PE	EE
SMBJ120A	SMBJ120CA	120	133	147	1	1	193	3.1	PG	EG
SMBJ130A	SMBJ130CA	130	144	159	1	1	209	2.9	PK	EK
SMBJ150A	SMBJ150CA	150	167	185	1	1	243	2.5	PM	EM
SMBJ160A	SMBJ160CA	160	178	197	1	1	259	2.3	PP	EP
SMBJ170A	SMBJ170CA	170	189	209	1	1	275	2.2	PR	ER
SMBJ180A	SMBJ180CA	180	201	222	1	1	292	2.1	PT	ET
SMBJ188A	SMBJ188CA	188	209	231	1	1	304	2	PB	EB
SMBJ200A	SMBJ200CA	200	224	247	1	1	324	1.9	PV	EV
SMBJ220A	SMBJ220CA	220	246	272	1	1	356	1.7	PX	EX
SMBJ250A	SMBJ250CA	250	279	309	1	1	405	1.5	PZ	EZ
SMBJ300A	SMBJ300CA	300	335	371	1	1	486	1.3	QE	FE
SMBJ350A	SMBJ350CA	350	391	432	1	1	567	1.1	QG	FG
SMBJ400A	SMBJ400CA	400	447	494	1	1	648	0.9	QK	FK
SMBJ440A	SMBJ440CA	440	492	543	1	1	713	0.9	QM	FM

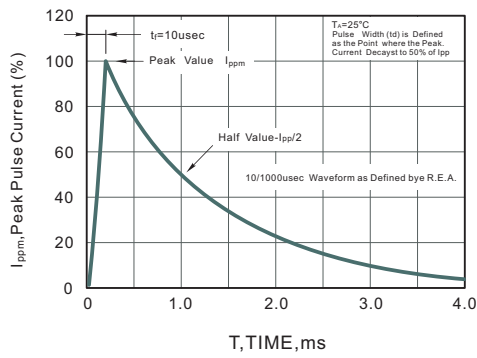
**Fig.1 Peak Pulse Power Rating Curve**



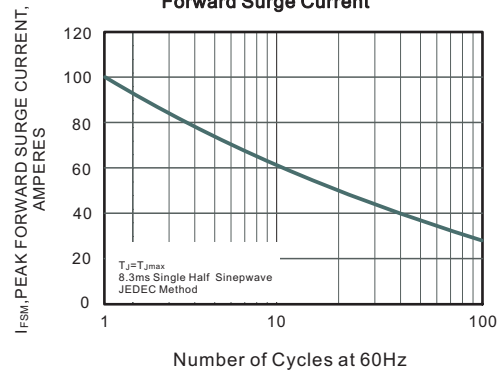
**Fig.2 Forward Current Derating Curve**



**Fig.3 Pulse Waveform**



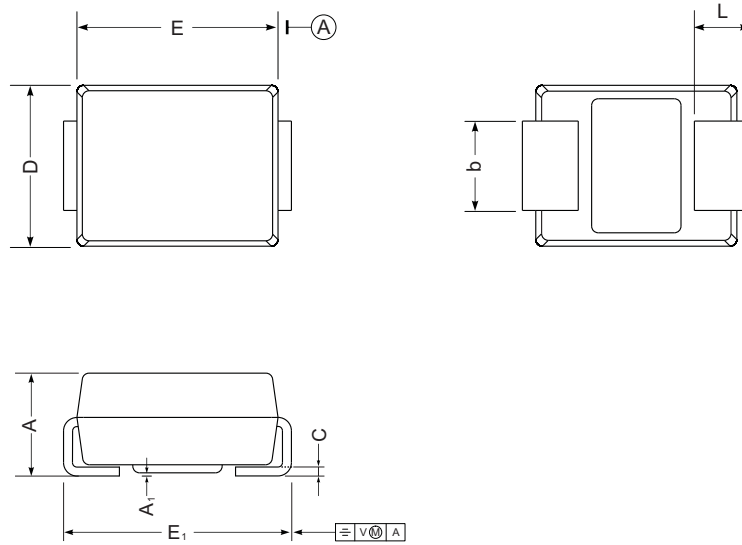
**Fig.4 Maximum Non-Repetitive Peak Forward Surge Current**



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

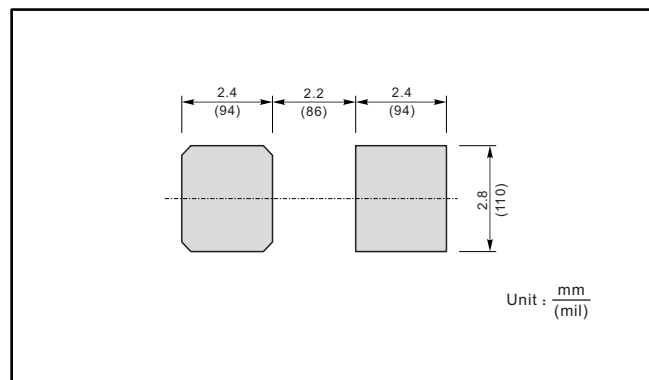
SMB



SMB mechanical data

UNIT		A	E	D	E <sub>1</sub>	A <sub>1</sub>	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.11
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.91
mil	max	96	185	155	220	7.9	59	12	83
	min	84	160	130	200	2.0	32	6	75

### The recommended mounting pad size



单击下面可查看定价，库存，交付和生命周期等信息

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