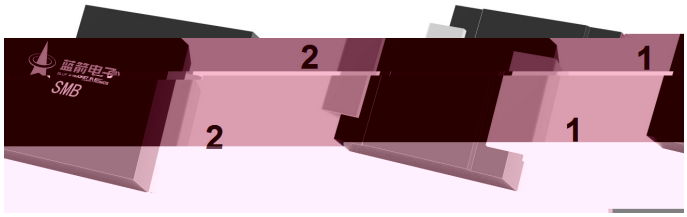
600W, 5.0V~440V SMB

Surface mount transient voltage suppressor power 600 watts,Stand-Off Voltage 5.0V~440V ,SMB package.

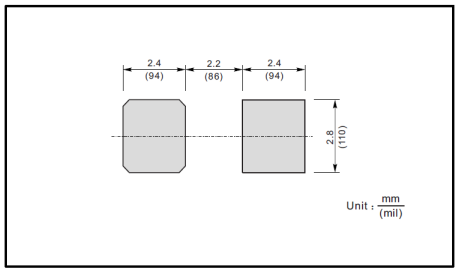
Glass passivated junction, Low inductance, For surface mounted applications,HF Product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



See Marking Instructions.

Parameter		Symbol	Rating	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
ESD Voltage per IEC6100-4-2	Contact	V_{ESD1}	± 30	KV
	Air	V_{ESD2}	± 30	KV
Typical Thermal Resistance Junction to Ambient(Note 5)		R_{JA}	43	/W
		R_{JC}	9	/W
		R_{JL}	18	/W
Operating Junction Temperature and Storage Temperature Range		T_j, T_{stg}	-55 ~ +150	

Note:

1. Non-repetitive current pulse, per Fig.3 and derated above T_A = 25°C per Fig. 2.
2. Mounted on 5 mm^2 (0.13mm thick) land areas.
3. Measured on 8.3ms,single half si c--1(5w)14(a)eont]TJ20.4634 T0TD-.0011 Tc[034 Tw[=)-8.(qur)-8(2(e C-13.3(w)13.1(a)1.

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	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}	SMB	
		V_{RRM}	Min	Max					Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
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	12.0	50.0	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	39.0	KV	AV
SMBJ10A	SMBJ10CA	10	11.1	12.3	1	5	17.0	35.3	KX	AX
SMBJ11A	SMBJ11CA	11	12.2	13.5	1	1	18.2	33.0	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	28.0	LG	BG

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	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}	SMB	
		V_{RRM}	Min	Max					Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
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	103.0	5.9	NM	DM
SMBJ70A	SMBJ70CA	70	77.8	86	1	1	113.0	5.3	NP	DP
SMBJ75A	SMBJ75CA	75	83.3	92.1	1	1	121.0	5.0	NR	DR
SMBJ78A	SMBJ78CA	78	86.7	95.8	1	1	126.0	4.8	NT	DT
SMBJ85A	SMBJ85CA	85	94.4	104	1	1	137.0	4.4	NV	DV
SMBJ90A	SMBJ90CA	90	100	111	1	1	146.0	4.1	NX	DX
SMBJ100A	SMBJ100CA	100	111	123	1	1	162.0	3.7	NZ	DZ
SMBJ110A	SMBJ110CA	110	122	135	1	1	177.0	3.4	PE	EE
SMBJ120A	SMBJ120CA	120	133	147	1	1	193.0	3.1	PG	EG
SMBJ130A	SMBJ130CA	130	144	159	1	1	209.0	2.9	PK	EK
SMBJ150A	SMBJ150CA	150	167	185	1	1	243.0	2.5	PM	EM
SMBJ160A	SMBJ160CA	160	178	197	1	1	259.0	2.3	PP	EP
SMBJ170A	SMBJ170CA	170	189	209	1	1	275.0	2.2	PR	ER
SMBJ180A	SMBJ180CA	180	201	222	1	1	292.0	2.1	PT	ET
SMBJ188A	SMBJ188CA	188	209	231	1	1	304.0	2.0	PB	EB
SMBJ200A	SMBJ200CA	200	224	247	1	1	324.0	1.9	PV	EV
SMBJ220A	SMBJ220CA	220	246	272	1	1	356.0	1.7	PX	EX
SMBJ250A	SMBJ250CA	250	279	309	1	1	405.0	1.5	PZ	EZ
SMBJ300A*	SMBJ300CA*	300	335	371	1	1	486.0	1.3	QE	FE
SMBJ350A*	SMBJ350CA*	350	391	432	1	1	567.0	1.1	QG	FG
SMBJ400A*	SMBJ400CA*	400	447	494	1	1	648.0	0.6	QK	FK
SMBJ440A*	SMBJ440CA*	440	492	543	1	1	713.0	0.9	QM	FM

Fig.1 Peak Pulse Power Rating Curve

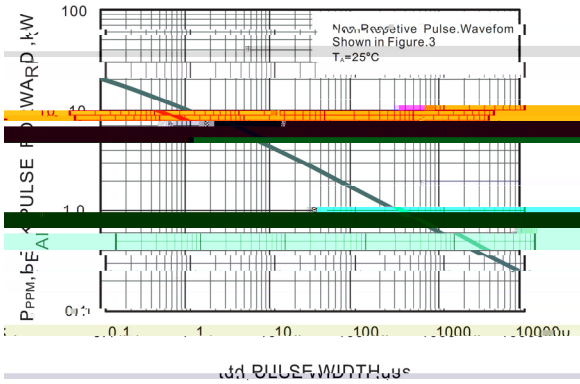


Fig.2 Forward Current Derating Curve

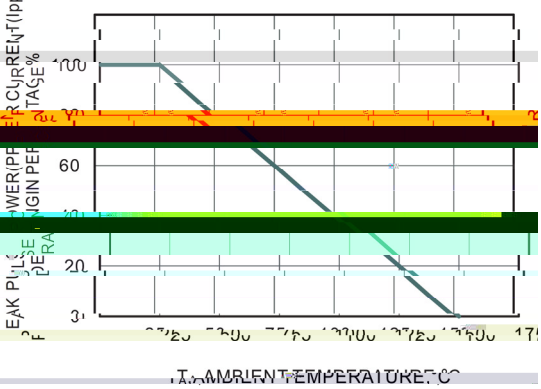


Fig.3 Pulse Waveform

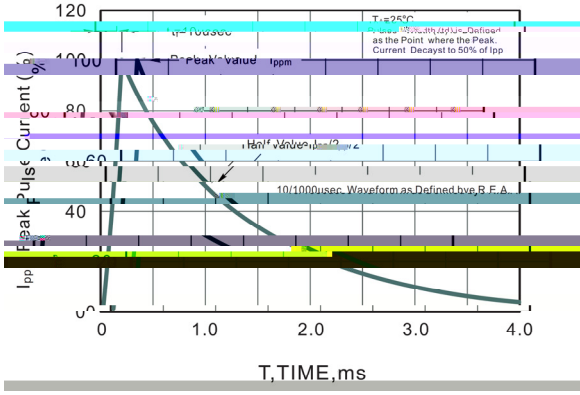
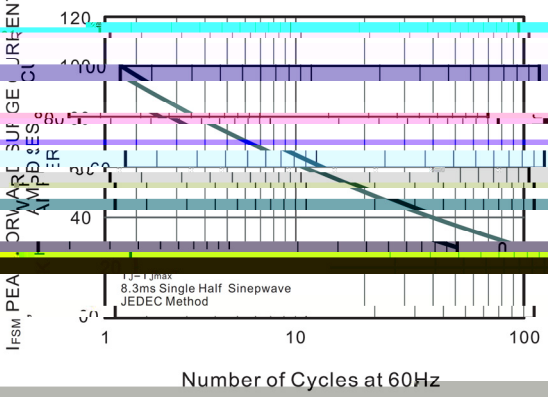
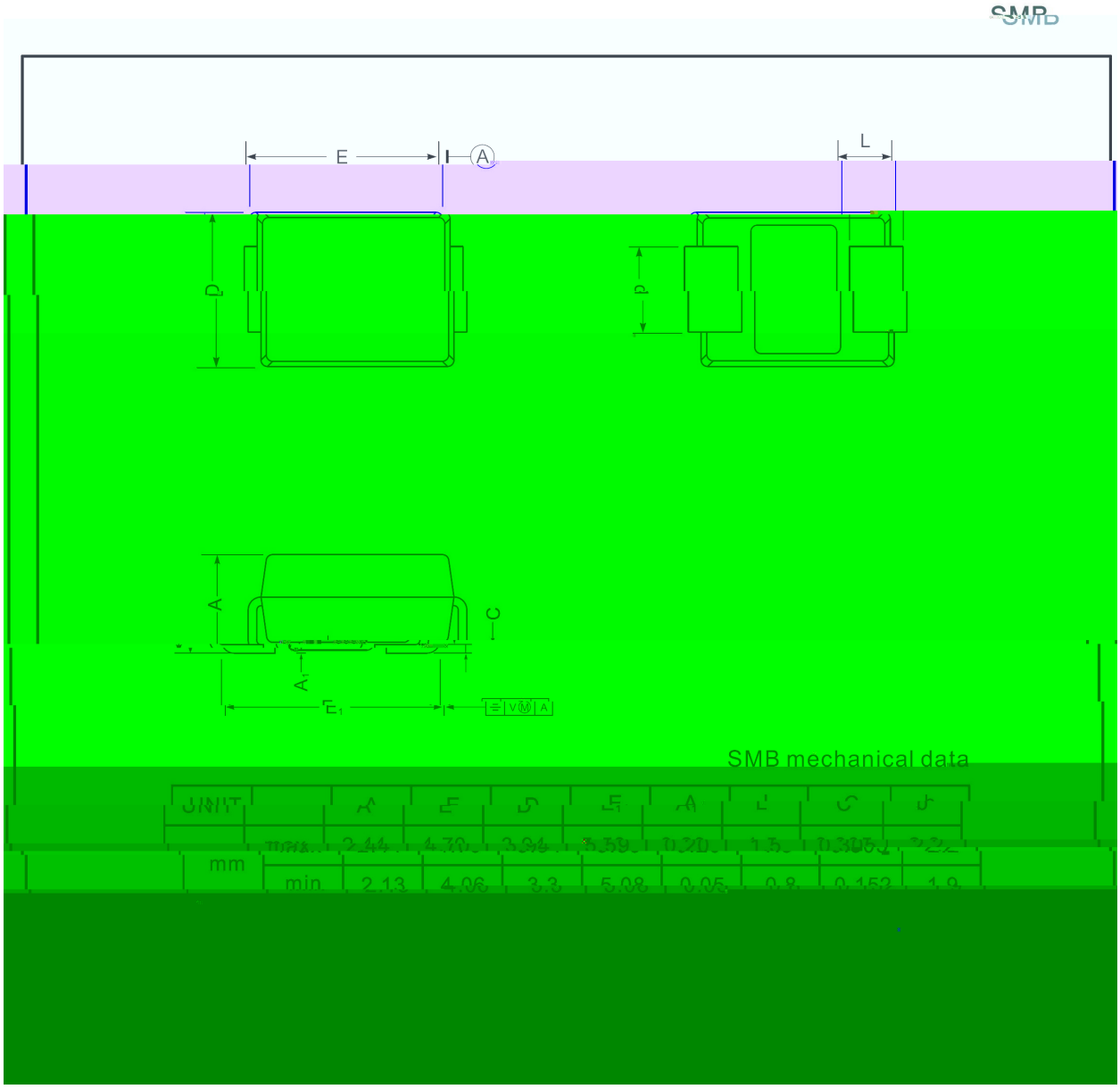


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current




SMB
E
A
L
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E1
SMB mechanical data
UNIT
mm
min
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4.06
3.3
5.08
0.05
0.8
0.152
1.9