

SODJ*****(C)**A-SH

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

200 Watt Peak Pulse Power

Features

- * For surface mounted applications in order to optimize board space
- * Low profile package
- * Excellent clamping capability
- * IEC61000-4-2 ESD 15kV Air,8kV contact compliance
- * Protects one I/O line
- * Lead-free parts meet RoHS requirements
- * Suffix "-SH" indicates Halogen-free part, ex.SODJ5.0A-SH.

Applications

- * Personal digital assistants (PDA)
- * Cellular handsets & Accessories
- * Portable devices
- * Portable instrumentation
- * Handhelds and notebooks
- * Digital cameras

Mechanical data

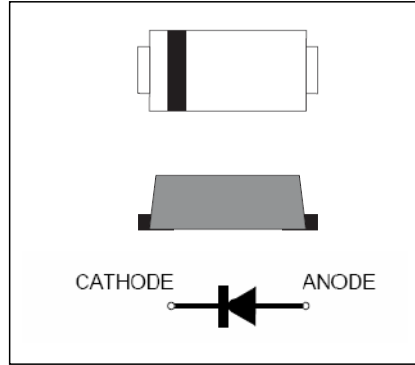
- * **Epoxy** : UL94-V0 rated flame retardant
- * **Case** : Molded plastic, SOD123-FL/MINI SMA
- * **Terminals** :Plated terminals, solderable per MIL-STD-750,Method 2026
- * **Polarity** : Indicated by cathode band; Bidirectional without color band.
- * **Mounting Position** : Any
- * **Weight** : Approximated 0.0155 gram

1.Maximum ratings and Electrical Characteristics(AT T =25 AoC unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Power Dissipation at $T_A=25^{\circ}\text{C}$, $T_P=1\text{ms}$ (Note 1)	P_{PPM}	Minimum 200	Watts
Steady State Power Dissipation at $T_C=75^{\circ}\text{C}$ (Note 2)	$P_{M(AV)}$	0.5	Watts
Forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3)	I_{FSM}	20	Amps
Operating Temperature Range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +175	$^{\circ}\text{C}$

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A=25^{\circ}\text{C}$ per Fig. 2.
2. 8.0mm² (.013mm thick) land areas
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.



We declare that the material of product is Halogen free (green epoxy compound)

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UNI-DIRECTIONAL PART NUMBER	Bidirectional-DIRECTIONAL PART NUMBER	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @IT	BREAKDOWN VOLTAGE VBR (V) MAX. @IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @IPP VC (V)	REVERSE LEAKAGE @VRWM IR (uA)	Marking Code	
								Uni	Bi
SODJ5.0A-SH	SODJ5.0CA-SH	5	6.4	7	10	9.2	400	KE	AE
SODJ6.0A-SH	SODJ6.0CA-SH	6	6.67	7.37	10	10.3	400	KG	AG
SODJ6.5A-SH	SODJ6.5CA-SH	6.5	7.22	7.98	10	11.2	250	KK	AK
SODJ7.0A-SH	SODJ7.0CA-SH	7	7.78	8.6	10	12	100	KM	AM
SODJ7.5A-SH	SODJ7.5CA-SH	7.5	8.33	9.21	1	12.9	50	KP	AP
SODJ8.0A-SH	SODJ8.0CA-SH	8	8.89	9.83	1	13.6	25	KR	AR
SODJ8.5A-SH	SODJ8.5CA-SH	8.5	9.44	10.4	1	14.4	10	KT	AT
SODJ9.0A-SH	SODJ9.0CA-SH	9	10	11.1	1	15.4	5	KV	AV
SODJ10A-SH	SODJ10CA-SH	10	11.1	12.3	1	17	2.5	KX	AX
SODJ11A-SH	SODJ11CA-SH	11	12.2	13.5	1	18.2	2.5	KZ	AZ
SODJ12A-SH	SODJ12CA-SH	12	13.3	14.7	1	19.9	2.5	LE	BE
SODJ13A-SH	SODJ13CA-SH	13	14.4	15.9	1	21.5	1	LG	BG
SODJ14A-SH	SODJ14CA-SH	14	15.6	17.2	1	23.2	1	LK	BK
SODJ15A-SH	SODJ15CA-SH	15	16.7	18.5	1	24.4	1	LM	BM
SODJ16A-SH	SODJ16CA-SH	16	17.8	19.7	1	26	1	LP	BP
SODJ17A-SH	SODJ17CA-SH	17	18.9	20.9	1	27.6	1	LR	BR
SODJ18A-SH	SODJ18CA-SH	18	20	22.1	1	29.2	1	LT	BT
SODJ20A-SH	SODJ20CA-SH	20	22.2	24.5	1	32.4	1	LV	BV
SODJ22A-SH	SODJ22CA-SH	22	24.4	26.9	1	35.5	1	LX	BZ
SODJ24A-SH	SODJ24CA-SH	24	26.7	29.5	1	38.9	1	LZ	BZ
SODJ26A-SH	SODJ26CA-SH	26	28.9	31.9	1	42.1	1	ME	CE
SODJ28A-SH	SODJ28CA-SH	28	31.1	34.4	1	45.4	1	MG	CG
SODJ30A-SH	SODJ30CA-SH	30	33.3	36.8	1	48.4	1	MK	CK
SODJ33A-SH	SODJ33CA-SH	33	36.7	40.6	1	53.3	1	MM	CM
SODJ36A-SH	SODJ36CA-SH	36	40	44.2	1	58.1	1	MP	CP
SODJ40A-SH	SODJ40CA-SH	40	44.4	49.1	1	64.5	1	MR	CR
SODJ43A-SH	SODJ43CA-SH	43	47.8	52.8	1	69.4	1	MT	CT
SODJ45A-SH	SODJ45CA-SH	45	50	55.3	1	72.7	1	MV	CV
SODJ48A-SH	SODJ48CA-SH	48	53.3	58.9	1	77.4	1	MX	CX
SODJ51A-SH	SODJ51CA-SH	51	56.7	62.7	1	82.4	1	MZ	CZ
SODJ54A-SH	SODJ54CA-SH	54	60	66.3	1	87.1	1	NE	DE
SODJ58A-SH	SODJ58CA-SH	58	64.4	71.2	1	93.6	1	NG	DG
SODJ60A-SH	SODJ60CA-SH	60	66.7	73.7	1	96.8	1	NK	DK
SODJ64A-SH	SODJ64CA-SH	64	71.1	78.6	1	103	1	NM	DM
SODJ70A-SH	SODJ70CA-SH	70	77.8	86	1	113	1	NP	DP
SODJ75A-SH	SODJ75CA-SH	75	83.3	92.1	1	121	1	NR	DR
SODJ78A-SH	SODJ78CA-SH	78	86.7	95.8	1	126	1	NT	DT
SODJ85A-SH	SODJ85CA-SH	85	94.4	104	1	137	1	NV	DV
SODJ90A-SH	SODJ90CA-SH	90	100	111	1	146	1	NX	DX
SODJ100A-SH	SODJ100CA-SH	100	111	123	1	162	1	NZ	DZ
SODJ110A-SH	SODJ110CA-SH	110	122	135	1	177	1	PE	EE
SODJ120A-SH	SODJ120CA-SH	120	133	147	1	193	1	PG	EG
SODJ130A-SH	SODJ130CA-SH	130	144	159	1	209	1	PK	EK
SODJ150A-SH	SODJ150CA-SH	150	167	185	1	243	1	PM	EM
SODJ160A-SH	SODJ160CA-SH	160	178	197	1	259	1	PP	EP
SODJ170A-SH	SODJ170CA-SH	170	189	209	1	275	1	PR	ER
SODJ180A-SH	SODJ180CA-SH	180	198	221	1	291	1	PT	ET
SODJ190A-SH	SODJ190CA-SH	190	209	233	1	307	1	PV	EV
SODJ200A-SH	SODJ200CA-SH	200	220	246	1	324	1	PX	EX

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2.Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1-Peak Pulse Power Rating Curve

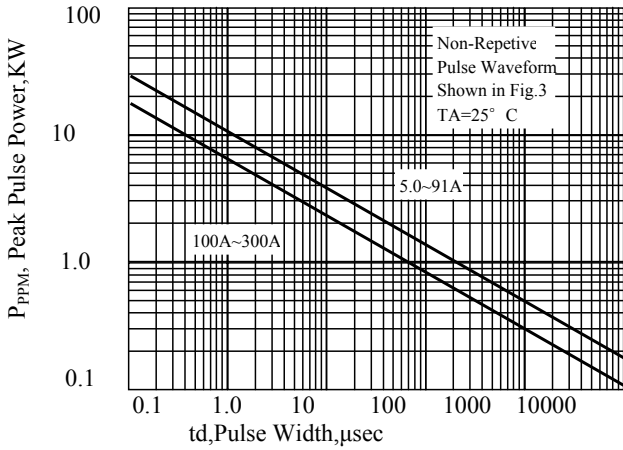


Fig. 2-Power Derating Curve

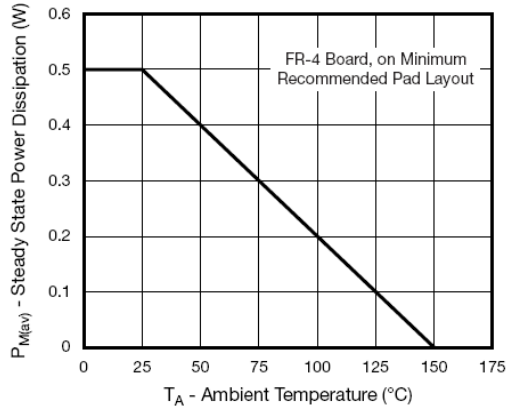


Fig. 3-Pulse Waveform

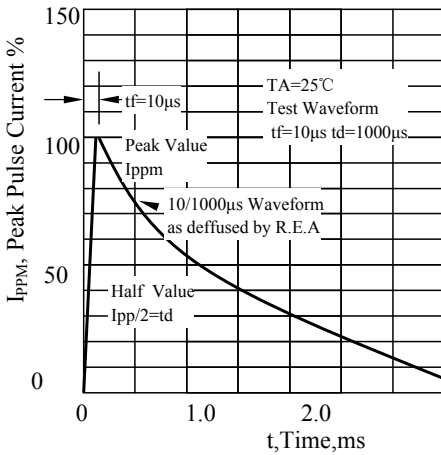


Fig. 4-Typical Junction Capacitance Unidirectional

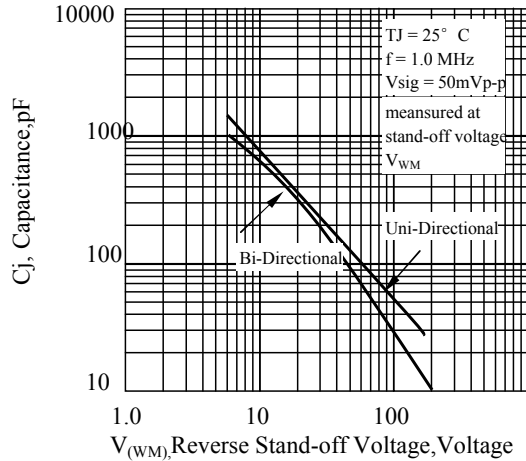


Fig 5. - typical transient thermal impedance

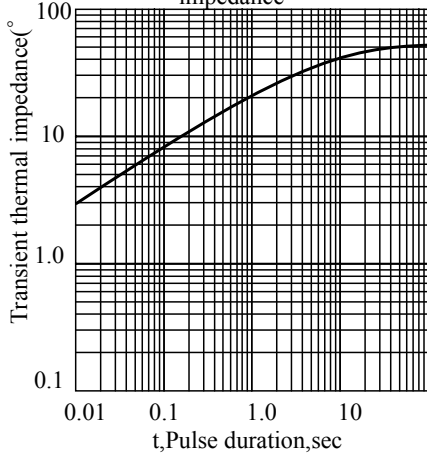
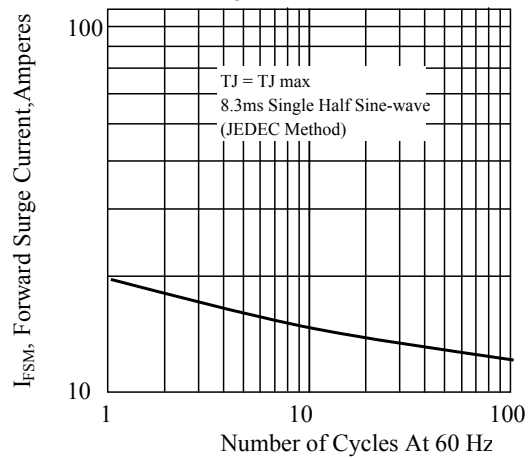
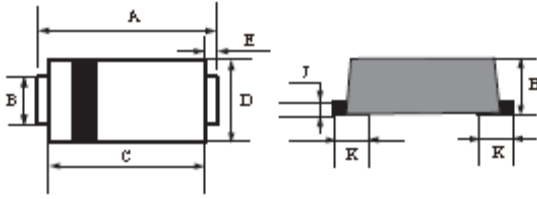


Fig. 6-Maximum Non-Repetitive Peak Forward Surge Current Unidirectional



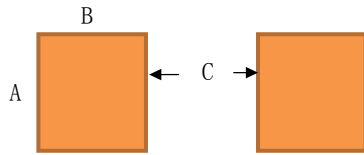
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3. dimension:



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.5	3.9	0.138	0.159
B	0.75	0.95	0.029	0.037
C	2.6	3.0	0.103	0.119
D	1.6	2.0	0.063	0.079
E	0.45Typ		0.018Typ	
H	0.9	1.2	0.036	0.047
J	0.12	0.22	0.005	0.009
K	0.8Typ		0.032Typ	

Suggested solder pad layout

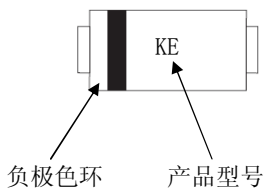


Dimensions in inches and (millimeters)

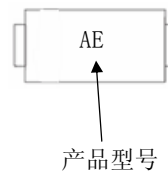
PACKAGE	A	B	C
SOD123-FL	0.044(1.10)	0.040(1.00)	0.079(2.00)

Marking:

Typical: **SODJ5.0A-SH**



SODJ5.0CA-SH



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4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2012.12.12
2	因为所有SOD123系列均为无卤塑料，所以取消印字下划线	周杰	2013.01.04
3	将封装SOD-123S修正为SOD123-FL	周杰	2013.03.20
4	增加双向印字说明。和焊板尺寸标注	周杰	2013.09.11
5	增加SODJ180A-SH~SODJ200A-SH	周杰	2014.06.03

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)