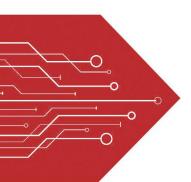
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet



Semiconductor

Compiance



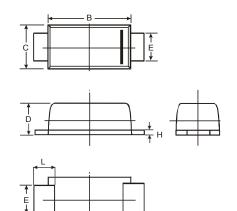
Features

- For surface mounted applications
- Low profile package
- Low incremental surge resistance, excellent clamping capability
- 200W peak pulse power capability with a10/1000 µs wave from,repetition rate (dutycycle):0.01%
- High temperature soldering guaranteed:
 260 °C/10 seconds, at terminals



- Case: SOD-123FL over passivated chip
- Polarity: Color band denotes positive end (cathode) except for bidirectional
- Mounting position: Any
- Weight: 0.006 ounces, 0.02 gram





SOD-123FL							
Dim	Min	Max	Тур				
Α	3.58	3.72	3 65				
В	2.72	2.78	2.75				
С	1.77	1.83	1.80				
D	1 02	1.08	1.05				
Е	0.097	1.03	1.00				
Н	0.13	0.17	0.15				
L	0.53	0.57	0.55				
All Dimensions in mm							

Maximum Ratings TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Maximum P _{PK} Dissipation (PW - 10/1000 μs)	P _{PK}	200	W
Maximum P _{PK} Dissipation @ Ta = 25 °C (PW - 8/10 μs) (Note 2)	P _{PK}	1000	W
DC Power Dissipation @ Ta = 25 °C (Note 3)	P _D	385	mW
Derate above 25 °C		4.0	mW/ °C
Thermal Resistance, Junction to Ambient (Note 3)	$R_{\Theta JA}$	325	°C/W
Thermal Resistance, Junction to Lead (Note 3)	R _{OJL}	26	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Notes:

- (1) Non-repetitive current pulse at Ta = 25°C, per waveform of Fig. 2.
- (2) Non-repetitive current pulse at Ta = 25°C, per waveform of Fig. 5.
- (3) Mounted with recommended minimum pad size, DC board FR4.







Semiconductor Compiance

TYPE		Marking		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdow n Voltage Max. @ I _T	Test Current	Revers e Leakag e @V _{RWM}	Maximum Clamping Voltage @I _{PP}	Peak Pulse Curren t
(Uni)	(Bi)	(Uni)	(Bi)	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	l⊤ (mA)	I _R (uA)	V _c (V)	I _{PP} (mA)
SODJ5.0A-MS	SODJ5.0CA-MS	KE	FE	5.0	6.40	7.00	10	400	9.2	21.7
SODJ6.0A-MS	SODJ6.0CA-MS	KG	FG	6.0	6.67	7.37	10	400	10.3	19.4
SODJ6.5A-MS	SODJ6.5CA-MS	KK	FK	6.5	7.22	7.98	10	250	11.2	17.9
SODJ7.0A-MS	SODJ7.0CA-MS	KM	FM	7.0	7.78	8.60	10	100	12.0	16.7
SODJ7.5A-MS	SODJ7.5CA-MS	KP	FP	7.5	8.33	9.21	1.0	50	12.9	15.5
SODJ8.0A-MS	SODJ8.0CA-MS	KR	FR	8.0	8.89	9.83	1.0	25	13.6	14.7
SODJ8.5A-MS	SODJ8.5CA-MS	KT	FT	8.5	9.44	10.4	1.0	10	14.4	13.9
SODJ9.0A-MS	SODJ9.0CA-MS	KV	FV	9.0	10.0	11.1	1.0	5.0	15.4	13.0
SODJ10A-MS	SODJ10CA-MS	KX	FX	10	11.1	12.3	1.0	2.5	17.0	11.8
SODJ11A-MS	SODJ11CA-MS	KZ	FZ	11	12.2	13.5	1.0	2.5	18.2	11.0
SODJ12A-MS	SODJ12CA-MS	LE	HE	12	13.3	14.7	1.0	2.5	19.9	10.1
SODJ13A-MS	SODJ13CA-MS	LG	HG	13	14.4	15.9	1.0	1.0	21.5	9.3
SODJ14A-MS	SODJ14CA-MS	LK	HK	14	15.6	17.2	1.0	1.0	23.2	8.6
SODJ15A-MS	SODJ15CA-MS	LM	HM	15	16.7	18.5	1.0	1.0	24.4	8.2
SODJ16A-MS	SODJ16CA-MS	LP	HP	16	17.8	19.7	1.0	1.0	26.0	7.7
SODJ17A-MS	SODJ17CA-MS	LR	HR	17	18.9	20.9	1.0	1.0	27.6	7.7
SODJ18A-MS	SODJ18CA-MS	LT	HT	18	20.0	20.9	1.0	1.0	29.2	6.8
SODJ20A-MS	SODJ20CA-MS	LV	HV	20	22.2	24.5	1.0	1.0	32.4	6.2
SODJ22A-MS	SODJ22CA-MS	LX	HX	22	24.4	26.9	1.0	1.0	35.5	5.6
SODJ24A-MS	SODJ22CA-MS	LZ	HZ	24	26.7	29.5	1.0	1.0	38.9	5.0
SODJ26A-MS	SODJ26CA-MS	ME	JE	26	28.9	31.9	1.0	1.0	42.1	48
SODJ28A-MS	SODJ28CA-MS	MG	JG	28	31.1	34.4	1.0	1.0	45.4	40
SODJ30A-MS	SODJ30CA-MS	MK	JK	30	33.3	36.8	1.0	1.0	48.4	4.4
SODJ33A-MS	SODJ30CA-MS									
SODJ36A-MS	SODJ36CA-MS	MM	JM JP	33	36.7	40.6	1.0	1.0	53.3	3.8
SODJ30A-WS	SODJ40CA-MS	MP MR	JP	36 40	40.0 44.4	44.2 49.1	1.0 1.0	1.0	58.1 64.5	3.4
SODJ40A-MS	SODJ43CA-MS		JT							
SODJ45A-MS	SODJ45CA-MS	MT	_	43	47.8	52.8	1.0	1.0	69.4	2.9
SODJ45A-MS	SODJ48CA-MS	MV	JV	45	50.0	55.3	1.0	1.0	72.7	2.8
SODJ40A-WS	SODJ51CA-MS	MX	JX	48	53.3	58.9	1.0	1.0	77.4	2.6
		MZ	JZ	51	56.7	62.7	1.0	1.0	82.4	2.4
SODJ54A-MS	SOD IFECA MS	NE	XE	54	60.0	66.3	1.0	1.0	87.1	2.3
SODJ58A-MS	SODJ58CA-MS	NG	XG	58	64.4	71.2	1.0	1.0	93.6	2.1
SODJ60A-MS SODJ64A-MS	SODJ60CA-MS SODJ64CA-MS	NK	XK	60	66.7	73.7	1.0	1.0	96.8	1.8
SODJ64A-MS	SODJ64CA-MS	NM	XM	64	71.1	78.6	1.0	1.0	103	1.7
SODJ70A-MS	SODJ70CA-MS SODJ75CA-MS	NP	XP	70	77.8	86.0	1.0	1.0	113	1.5
		NR	XR	75	83.3	92.1	1.0	1.0	121	1.4
SODJ78A-MS	SOD 185CA MS	NT	XT	78	86.7	95.8	1.0	1.0	126	1.4
SODJ85A-MS	SODJ85CA-MS	NV	XB	85	94.4	104	1.0	1.0	137	1.3
SODJ90A-MS	SODJ90CA-MS	NX	XX	90	100	111	1.0	1.0	146	1.2
SODJ100A-MS	SODJ100CA-MS	NZ	XZ	100	111	123	1.0	1.0	162	1.1
SODJ110A-MS	SODJ110CA-MS	PE	TE	110	122	135	1.0	1.0	177	1.0
SODJ120A-MS	SODJ120CA-MS	PG	TG	120	133	147	1.0	1.0	193	0.9
SODJ130A-MS	SODJ130CA-MS	PK	TK	130	144	159	1.0	1.0	209	0.8
SODJ150A-MS	SODJ150CA-MS	PM	TM	150	167	185	1.0	1.0	243	0.7
SODJ160A-MS	SODJ160CA-MS	PP	TP	160	178	197	1.0	1.0	259	0.7
SODJ170A-MS	SODJ170CA-MS	PR	TR	170	189	209	1.0	1.0	275	0.6



Semiconductor Compiance

Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specificationsof any andall MSKSEMI Semiconductor products described orcontained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- MSKSEMI Semiconductor, strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringementsof intellectual property rights or other rightsof third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.