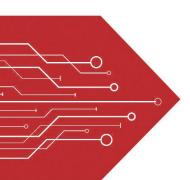
MSKSEMI















ESD

TVS

TSS

MOV

GDT

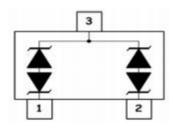
PLED

Brodnet data speet

www.msksemi.com



PIN CONFIGURATION





S0T-23

FEATURES

- **♦IEC61000-4-2 (ESD) ±30kV (Contact)** ±30kV (Air)
- ♦IEC61000-4-4 (EFT) 40A (5/50ns)
- ♦350 Watts Peak Pulse Power per (tp=8/20µs)
- ♦Protects two bidirectional lines
- **♦Low clamping voltage**
- ♦ Working voltages: 3.3V to 36V
- **♦Low leakage current**

MACHANICAL DATA

- ♦SOT-23 package
- **♦Flammability Rating: UL 94V-0**
- ♦Packaging: Tape and Reel
- ♦High temperature soldering guaranteed: 260C/10s
- ♦Reel size: 7 inch
- ♦MSL 1

APPLICATIONS

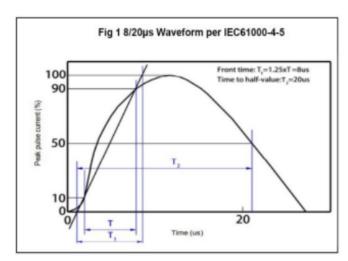
- *♦ Cell Phone Handsets and Accessories </u>*
- **♦**Microprocessor based equipment
- ♦Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- **♦Portable Instrumentation**
- Networking and Telecom
- **♦Serial and Parallel Ports.**

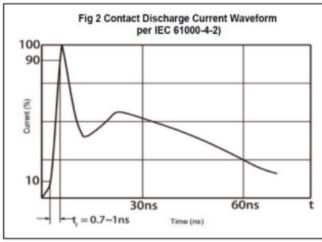
BSOLUTE MAXIMUM RATING					
Symbol	Parameter Value				
M	ESD per IEC 61000-4-2 (Contact)	±30	147		
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	kV		
\mathbf{P}_{PP}	Peak Pulse Power (8/20µs)	350	w		
T OPT	Operating Temperature	-55/+150	°C		
T _{STG}	Storage Temperature	-55/+150			
T∟	Lead Soldering Temperature	260 (10 sec.)	°C		



ELECTRICAL CHARACTERISTICS (Tamb=25 ⁰ C)									
P/N	MARK	V _{RWM} (V) (max.)	V _B (V) (min.)	I⊤ (mA)	V _○ @1A (V) (max.)	(max.)	/c /) (@A)	I _R (μA) (max.)	C _J (pF) (max.)
SDT23C05L02-MS	C05	5. 0	6. 0	1	9. 8	18. 0	17	10	200
SDT23C12L02-MS	C12	12. 0	13. 3	1	19. 0	32. 0	11	1	75
SDT23C15L02-MS	C15	15. 0	16. 7	1	24. 0	38. 0	10	1	68
SDT23C24L02-MS	C24	24. 0	26. 7	1	43. 0	52. 0	7	1	50

ELECTRICAL CHARACTERISTICS CURVE



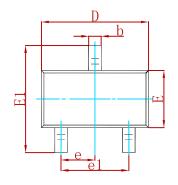


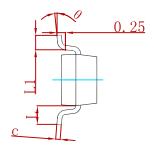


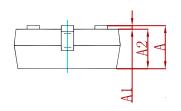


Semiconductor

PACKAGE MECHANICAL DATA

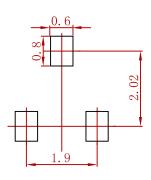






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950) TYP	0.037	7 TYP	
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
SDT23CXXL02-MS	SOT-23	3000



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.

单击下面可查看定价,库存,交付和生命周期等信息

>>MSKSEMI (美森科)