MSKSEMI















ESD

TVS

TSS

MOV

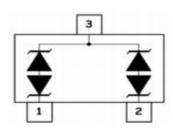
GDT

PLED

Broduct data sheet



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: 3.3 V to 36 V
- **♦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

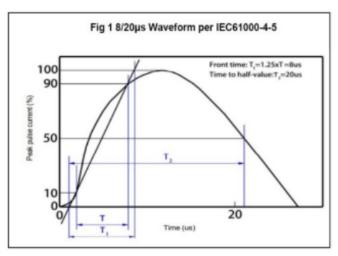
- *♦ Cell Phone Handsets and Accessories </u>*
- **♦**Microprocessor based equipment
- ♦Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- **♦Portable Instrumentation**
- Networking and Telecom
- **♦Serial and Parallel Ports.**
- **♦Peripherals**

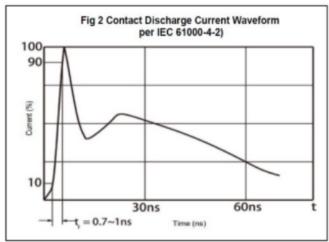
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter Value			
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV	
P _{PP}	Peak Pulse Power (8/20µs)	350	w	
T 0PT	Operating Temperature	-55/+150	°C	
T _{STG}	Storage Temperature	-55/+150	°C	
T∟	Lead Soldering Temperature	260 (10 sec.)	°C	



P/N	MARK	V _{RWM} (V)	V _B (V)	l⊤ (mA)	V₀@1A (V)	\ (\	∕c ∕)	I _R (µA)	C _J (pF)
		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SMO3C-MS	C03	3.3	4. 0	1	7. 5	16. 0	20	40	450
SMO5C-MS	C05	5. 0	6. 0	1	9.8	18. 0	17	10	200
SMO8C-MS	C08	8. 0	8. 5	1	13. 4	24. 0	15	2	120
SM12C-MS	C12	12. 0	13. 3	1	19. 0	32. 0	11	1	75
SM15C-MS	C15	15. 0	16. 7	1	24. 0	38. 0	10	1	68
SM18C-MS	C18	18. 0	20. 0	1	29. 0	45. 0	9	1	57
SM20C-MS	C20	20. 0	22. 3	1	35. 0	50. 0	8	1	52
SM24C-MS	C24	24. 0	26. 7	1	43. 0	52. 0	7	1	50
SM36C-MS	C36	36. 0	40. 0	1	60. 0	75. 0	4. 5	1	35

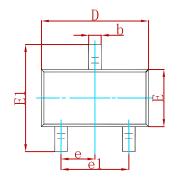
ELECTRICAL CHARACTERISTICS CURVE

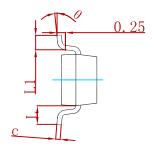


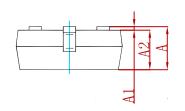




PACKAGE MECHANICAL DATA

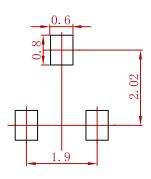






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Зуппон	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950) TYP	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
SMXXC-MS	SOT-23	3000



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