MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

 PLED

SM24CANB-02HTG-MS

Product specification





FEATURES

Ultra low leakage: nA level

Operating voltage: 24V

Low clamping voltage

Complies with following standards:

- IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV

Contact discharge: ±30kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

- IEC61000-4-5 (Lightning) 5A (8/20μs)

RoHS Compliant

AEC-Q101 Compliant

Applications

USB 2.0 power and data line

Set-top box and digital TV

Digital video interface (DVI)

Notebook Computers

SIM Ports

• 10/100 Ethernet

Mechanical Characteristics

Package: SOT-23

Lead Finish: Lead Free

UL Flammability Classification Rating 94V-0

Quantity Per Reel:3,000pcs

Reel Size:7inch

Reference News

	PACKAGE OUTLINE	PIN CONFIGURATION	Marking
SOT-23	SOT 22		



Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ррр	300	W
ESD per IEC 61000-4-2 (Air)	Vesd	±30	Kv
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтл	-55 to +150	°C

Electrical Characteristics(TA=25°C unless otherwise specified)

	V _{RWM} (V)	V _{BR} (V)	lı (mA)	V _c @1A	Vc		la U A	C (Pf)
					(Max)	(@A)	μΑ (Max)	(Typ.)
	24	27	1	40	45	5	0.2	25



Characteristic Curves

Fig1. 8/20 μ s Pulse Waveform

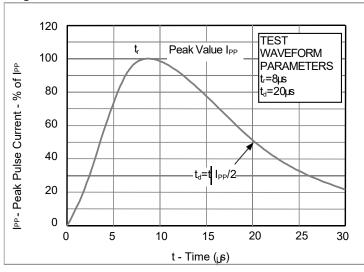


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

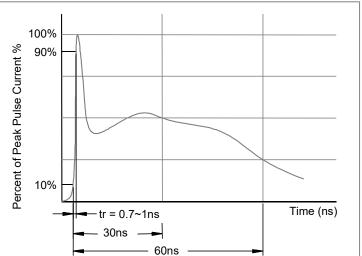
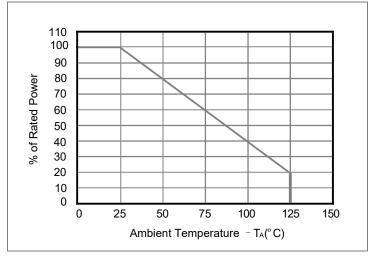
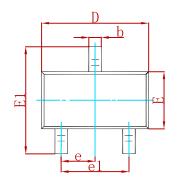


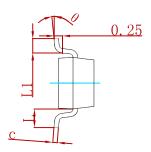
Fig3. Power Derating Curve

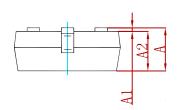




PACKAGE MECHANICAL DATA

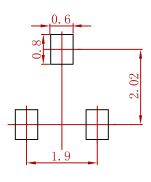






Complete	Dimensions In Mill		meters Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.55	0.550 REF		REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 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
SM24CANB-02HTG-MS	SOT-23	3000



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