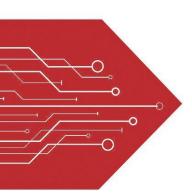
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data speet











Ultra low leakage: nA level

Operating voltage: 5V

Low clamping voltage

Complies with following standards:

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

Air discharge: ±15kV

Contact discharge: ±8kV

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

- IEC61000-4-5 (Lightning) 15A (8/20 μs)

RoHS Compliant

SOD-323



Applications

USB 2.0 power and data line

Set-top box and digital TV

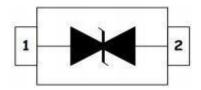
Digital video interface (DVI)

Notebook Computers

SIM Ports

10/100 Ethernet

Pin Configuration



Mechanical Characteristics

Package: SOD-323

Lead Finish: Lead Free

UL Flammability Classification Rating 94V-0

Quantity Per Reel:3,000pcs

Reel Size:7 inch

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

	VRWM	V_{BR}	Ιτ	I _τ V _c (mA) @1A	Vc		I R	С	
P/N	(V)	(V)			(Max)	(@A)	μA (Max)	(Pf) (Typ.)	
PSD05C-MS	5	6	1	9.8	17	15	10	25	

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

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	320	W	
ESD per IEC 61000-4-2 (Air)	- V ESD	± 15	Kv	
ESD per IEC 61000-4-2 (Contact)	A F2D	± 8		
Operating Temperature Range	TJ	-55 to +125	$^{\circ}$ C	
Storage Temperature Range	Тѕтл	-55 to +150	$^{\circ}$	

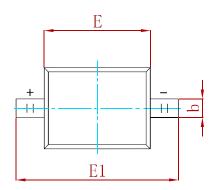


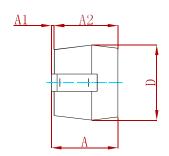


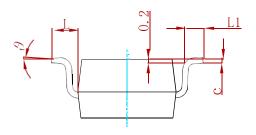




PACKAGE MECHANICAL DATA

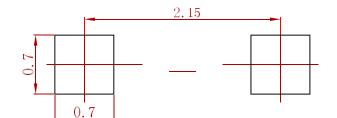






Ob. a.l.	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475	REF.	0.019	REF.	
L1	0.250	0.400	0.010	0.016	
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
PSD05C-MS	SOD-323	3000



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