

Product data sheet

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Features

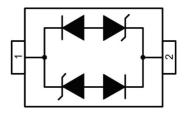
- ♦ 350W peak pulse power (8/20µs)
- Ultra low capacitance : 1.0pF typical
- Ultra low leakage: nA level
- ♦ Low Operating: 15V
- Low clamping voltage
- Protects one power line or data line
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±30kV
 Contact discharge: ±30kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
- RoHS Compliant

Applications

- USB Ports
- Smart Phones
- Wireless Systems
- Ethernet 10/100/1000 Base T

Mechanical Characteristics

- Package: SOD-323
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Marking Information: See Below



Circuit and Pin Schematic

SOD-323

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

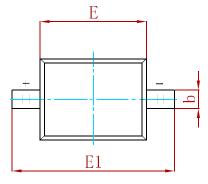
Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	VEOD	±30	
ESD per IEC 61000-4-2 (Contact)	VESD	±30	kV
Operating Temperature Range	TJ	-40 to +85	°C
Storage Temperature Range	Tstg	−55 to +150	°C

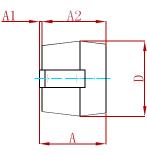
Parameter	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse Working Voltage	VRWM			15	V	
Breakdown Voltage	VBR	16.7			V	IT = 1mA
Reverse Leakage Current	I _R		1	100	nA	VRWM = 15V
Clamping Voltage	Vc			20	V	IPP = 1A (8 x 20µs pulse)
Clamping Voltage	Vc			31	V	IPP = 8A (8 x 20µs pulse)
Peak Pulse Current	IPP			8	А	tp=8/20µs
Junction Capacitance	Сл		1		pF	VR = 0V, f = 1MHz

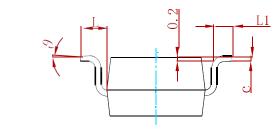




PACKAGE MECHANICAL DATA

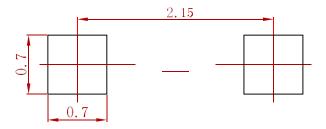






Cumhal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
A		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
с	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 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
GBLC15CI-MS	SOD-323	3000





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