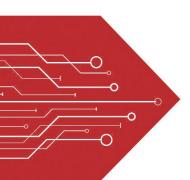
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ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

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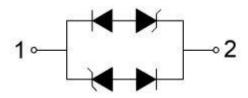








SOD-323



Features

- 2-pin lead-less package
- Low Junction capacitance (Max value: 1.5pF)
- Peak Pulse current (8/20 µ s) MAX : 20A
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- Low leakage current
- Working voltages:3.3V
- RoHS Compliant

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
- Tape Reel :3000pcs

Applications

- LED Lighting Modules
- RS232/RS485
- CAN and LIN Bus
- Portable Instrumentation
- General Purpose I/O
- Automotive application

Absolute Maximum Ratings (T= 25 °C, RH= 45% - 75%, unless otherwise noted)				
Parameters	Symbol	Value	Unit	
Peak Pulse Power (tp=8/20µs waveform)	РРР	380	W	
Peak Pulse Current (8/20µs)	I PP	20	А	
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	Vesd	±30 ±30	KV	
Operating Temperature Range	TJ	-55 to + 125	°C	
Storage Temperature Range	Tstg	-55 to + 150	°C	

Electrical Characteristics (T=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Working Voltage	VRWM				3.3	V
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R = 1mA	5		8	V
Reverse Leakage Current	I _R	V _R = 3.3V			0.5	uД
Clamping voltage	Vc	I _{PP} = 1A,T _P =8/20us			9.5	V
Clamping voltage	Vc	I _{PP} = 20A,T _P =8/20us			19	V
Junction capacitance	Cj	V _R =0V,f =1MHz	0.8	1	1.5	PF



Typical Characteristics

FIG1: Power rating derating curve

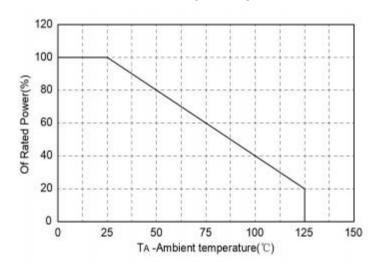


FIG2: pulse Waveform

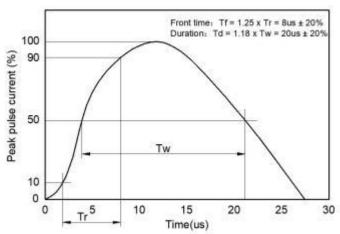


FIG3: Capacitance between teminals charateristics

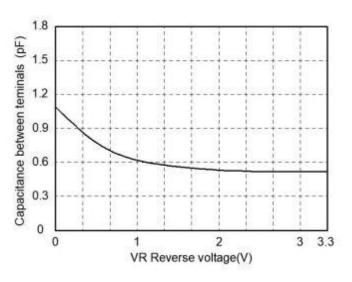
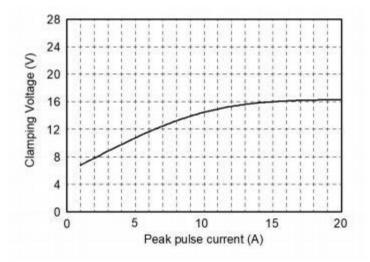


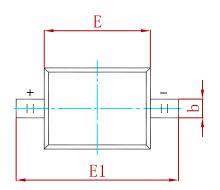
FIG4: Clamping Voltage vs. Peak Pulse Current

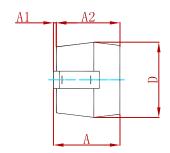


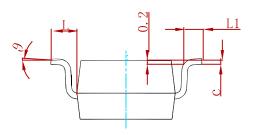




PACKAGE MECHANICAL DATA

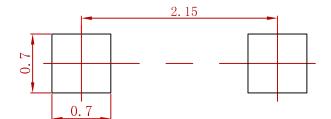






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 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
BSD3C031L2-MS	SOD-323	3000



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