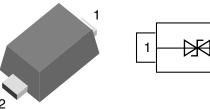


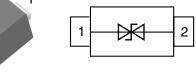
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ESD Protection Diode in SOD-923

Features

- 100 Watts peak pulse power (tp = 8/20µs)
- Tiny SOD923 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 ±30KV contact ±30KV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 8A (8/20µs)





Mechanical Data

- Case: SOD923 (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
ESD Air Discharge per IEC 61000-4-2	V _{ESD}	± 30	kV
ESD Contact Discharge per IEC 61000-4-2	V _{ESD}	± 30	kV
Peak pulse power 8/20 µs waveform	P _{PPM}	100	W
Peak pulse current 8/20 μs waveform	I _{PPM}	8	A
Operating Temperature	T _J	- 55 to + 125	°C
Storage Temperature	T _{STG}	- 55 to + 150	°C

Electrical Characteristics

 $(T_A = 25 \, ^{\circ}C \text{ unless otherwise specified})$

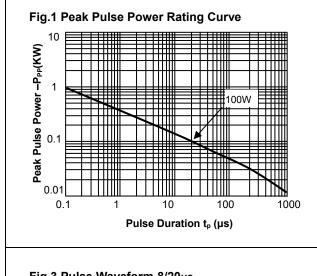
Parameter	Test Conditions	Synbol	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage		V_{RWM}			5	V
Max. Reverse current	at V _R = 5 V	IR			1	μΑ
Max. Clamping voltage	at I _{PP} = 8 A, Acc. IEC 61000-4-5	V _C			13	V
Min. Reverse Breakdown Voltage	at I _R = 1 mA	V_{BR}	6.0	6.8		V
Capacitance	at $V_R = 0 V$; $f = 1 MHz$	C _D		15		pF

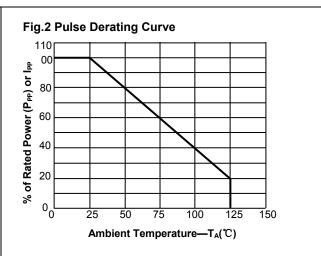
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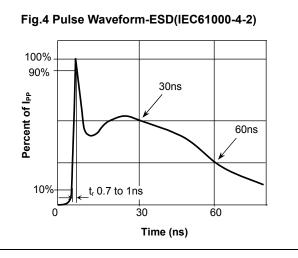


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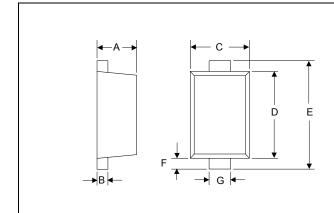
Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)







Package Dimensions

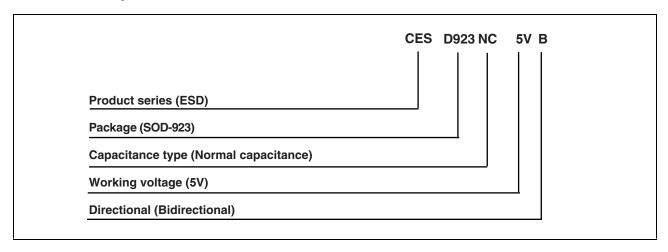


Dim	millmeters		
Dilli	min	max	
Α	0.34	0.40	
В	0.07	0.17	
С	0.55	0.65	
D	0.75	0.85	
Е	0.95	1.05	
F	0.05	0.15	
G	0.15	0.25	



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Part number system



Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD923NC5VB	SOD-923	Tape and reel	8000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release

Rev. 1.0 www.crea-tek.com



CESD923NC5VB

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