

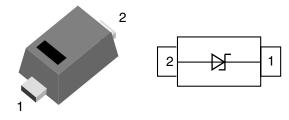
CESD523NC24VU

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ESD Protection Diode in SOD-523

Features

- 240Watts peak pulse power (tp = 8/20µs)
- SOD-523 package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=30pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±25kV contact ±25kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 5A (8/20µs)



Mechanical Data

- Case: SOD-523 (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
Peak Pulse Power (T _P =8/20µS)	P_{PP}	240	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	25/25	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	5	Α
Junction Temperature	T_J	-55 to +150	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

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

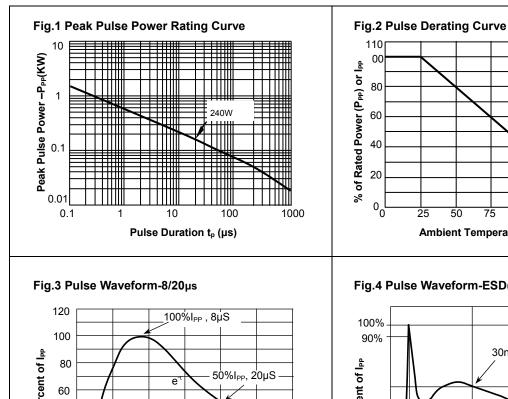
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26.7			٧
Reverse Leakage Current	I_R	V _R =24V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =5A			45	٧
Clamping Voltage (IEC 61000-4-2)	V _C	V _{ESD} =8kV		40		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		30		pF

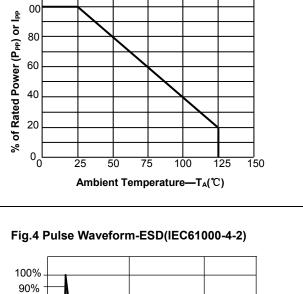
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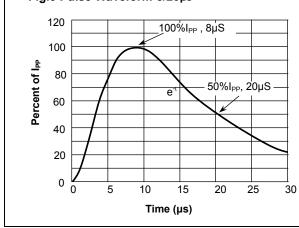


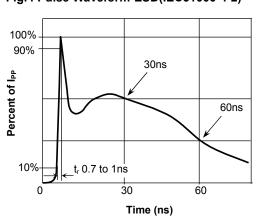
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Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)

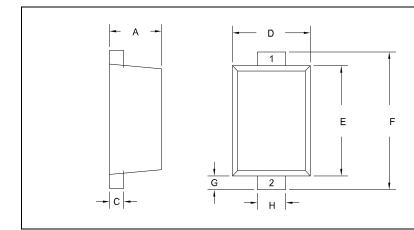








Package Dimensions

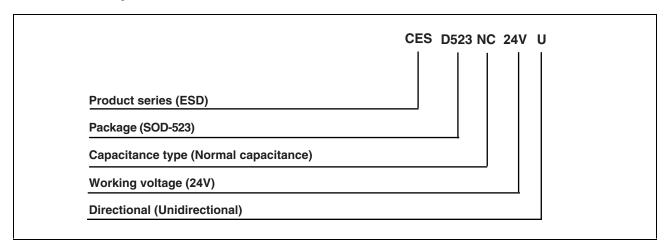


millmeters		
min	max	
0.50	0.70	
0.07	0.20	
0.70	0.90	
1.10	1.30	
1.50	1.70	
0.15	0.25	
0.25	0.35	
	min 0.50 0.07 0.70 1.10 1.50 0.15	



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Part number system



Marking



Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD523NC24VU	SOD-523	Tape and reel	5000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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