J06A323NC28VB

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ESD Protection Diode in SOD-323

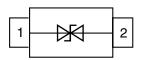
Features

- 420Watts peak pulse power (Tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=20pF typ.)
- Protection one data/power line to: ISO 10605 ±15kV contact ±25kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 10A (8/20µs)
- AEC-Q101 Qualified

Mechanical Data

- Case: SOD-323 (plastic package).
 Lead free; RoHS compliant; Halogen free
- 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}	420	W
ESD contact/air discharge (ISO 10605)	V _{ESD}	15/25	kV
Peak Pulse Current (T _P = 8/20µs)	I _{PP}	7	Α
Junction Temperature	TJ	-55 to +150	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$

Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

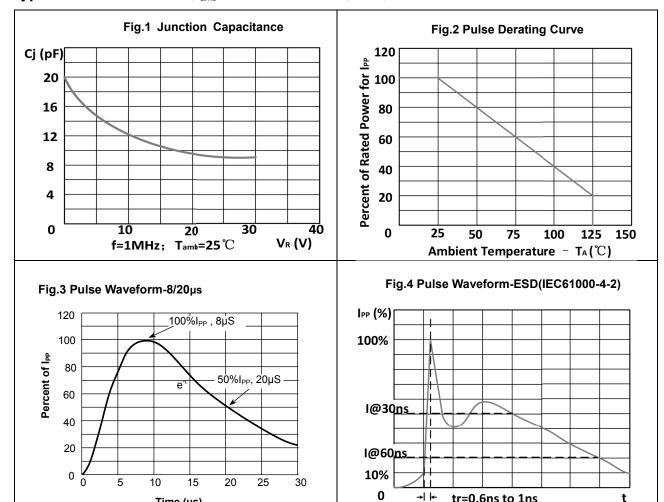
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				28	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	31	33	35	٧
Reverse Leakage Current	I _R	V _R =28V			1.0	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =1A, tp=8/20μs		35	45	٧
		I _{PP} =7A, tp=8/20μs		45	60	٧
Junction Capacitance	CJ	V _R =0V, f=1MHz		20		pF

tr=0.6ns to 1ns



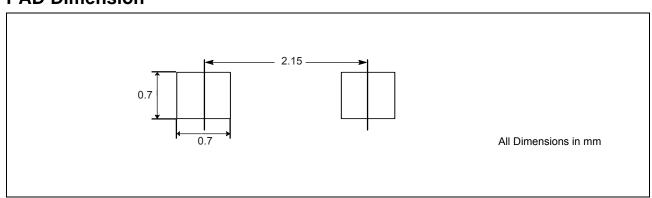
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



PAD Dimension

Time (µs)

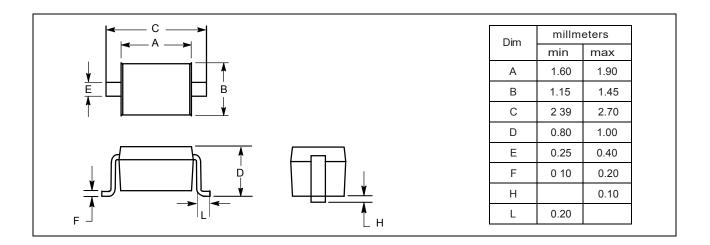


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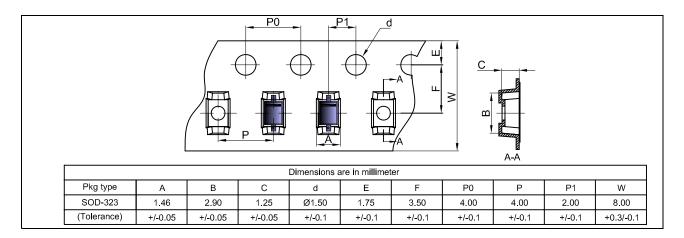


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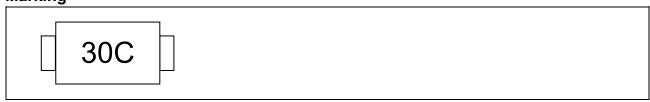
Package Dimensions



Package Information



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
J06A323NC28VB	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
5-Jul2023	3.0	Update

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