

# J06A323NC24VB

### JML Electronics

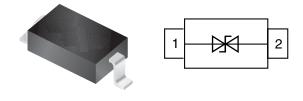
### **ESD Protection Diode in SOD-323**

#### Features

- 380Watts peak pulse power (VpÁ 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=15pF typ.)
- Protection one data/power line to: ISO 10605 ±15kV contact ±25kV airÁ IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 9A (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 <sub>P</sub> =8/20µs)	P <sub>PP</sub>	380	W
ESD contact/air discharge (ISO 10605)	V <sub>ESD</sub>	15/25	kV
Peak Pulse Current (TP = 8/20µs)	I <sub>PP</sub>	9	А
Junction Temperature	TJ	-55 to +150	°C
Storage temperature	T <sub>STG</sub>	-55 to +150	°C

### **Electrical Characteristics**

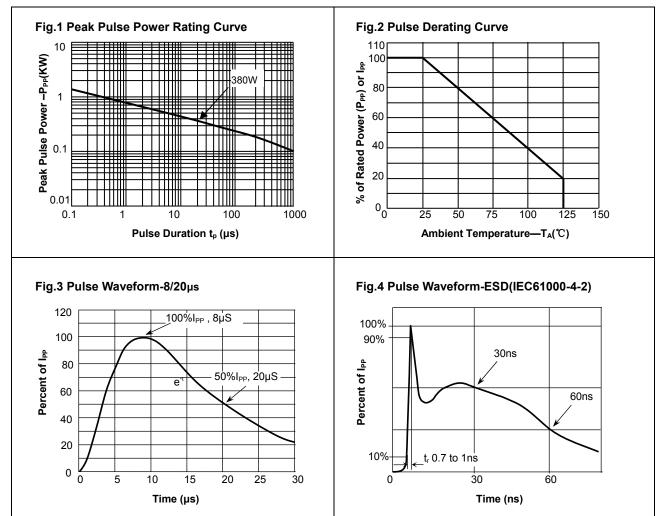
(T<sub>A</sub> = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V <sub>RWM</sub>				24	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> =1mA	26.7			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =24V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I <sub>PP</sub> =9A		42		V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		15		pF



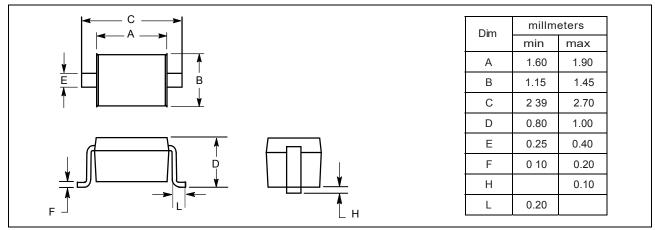
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### Typical Characteristics ( $T_{amb}$ = 25 °C unless otherwise specified)

### **Package Dimensions**

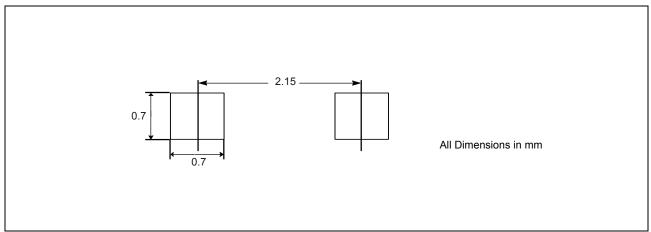




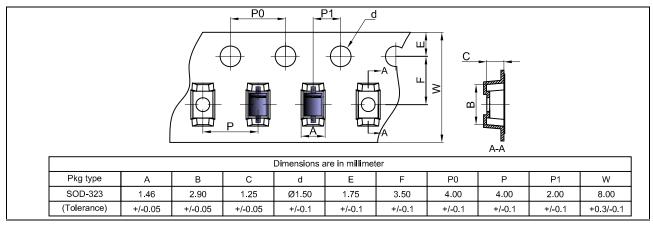
# J06A323NC24VB

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### **PAD Dimension**



### **Package Information**



### Marking



### **Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
J06A323NC24VB	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

#### **Revision history**

Date	Revision	Changes
17-Mar2023	3.0	Update



product.

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