

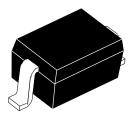
#### **Features**

- 360W peak pulse power (tp= 8/20µs)
- SOD-323 package
- Fast response time,typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV (Air) ESD protection
- IEC 61000-4-2 ±30kV (Contact) ESD protection
- IEC 61000-4-4 9A (5/50ns) EFT protection
- RoHS compliant

## **Applications**

- Laptop computers
- Cellular phones
- Digital cameras
- PDAs

### SES24VD323M-2B



**SOD-323** 



**Schematic Diagram** 

## **Absolute Maximum Ratings**

 $(T_A=25^{\circ}C$ , Unless otherwise specified.)

Rating	Symbols	Value	Units
Peak Pulse Power (T <sub>P</sub> =8/20µS)	P <sub>PP</sub>	360	W
Peak Pulse Current (T <sub>P</sub> =8/20µS)	I <sub>PP</sub>	9	Α
Operating Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T <sub>STG</sub>	-55 to +150	$^{\circ}$

#### **Electrical Characteristics**

(T<sub>A</sub>=25°C, Unless otherwise specified.)

Parameter	Symbols	Conditions	Min	Тур	Max	Units
Reverse stand-off voltage	$V_{RWM}$				24	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> =1mA	26.7			٧
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =24V			0.5	μΑ
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =9A,T <sub>P</sub> =8/20μs		40		V
Junction Capacitance	CJ	V <sub>R</sub> =0V,f=1MHz		19		pF



# **Typical Characteristic Curves**

Fig.1 Peak Pulse Power vs Pulse Time

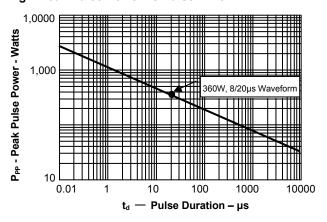


Fig.2 Pulse WaveForm-8/20µs

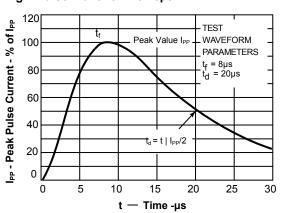


Fig.3 Power Derating Curve

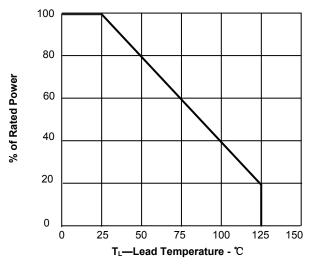
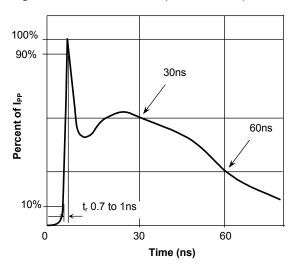
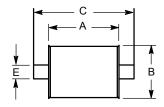
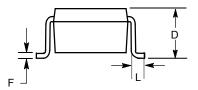


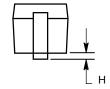
Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



### **Product Dimensions**



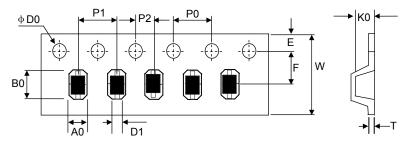




Dim	millmeters				
Dilli	min	max			
A	1.60	1.90			
В	1.15	1.45			
С	2.39	2.72			
D	0.80	1.10			
Е	0.25	0.40			
F	0.10	0.20			
Н		0.10			
L	0.20	-			



# **Package Information**



#### Unit:mm

A0	В0	K0	D1	ф <b>D</b> 0	E	F	W	P0	P1	P2	Т
1.52±0.10	2.90±0.10	1.35±0.10	1.0±0.25	1.50±0.10	1.75± 0.10	3.50± 0.05	8.00± 0.10	4.00±0.10	4.00±0.10	2.00±0.05	0.24~0.27

# Marking



### **Order Information**

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES24VD323M-2B	SOD-323	0.0045g	Tape & Reel	3000pcs	RoHS compliant

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