

Features

- 500W 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 40A (5/50ns) EFT protection
- RoHS compliant

Applications

- Laptop computers
- Cellular phones
- Digital cameras
- PDAs

SES36VD323-2B



SOD-323



Schematic Diagram

Absolute Maximum Ratings

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

Rating	Symbols	Value	Units	
Peak Pulse Power (T _P =8/20µS)	P _{PP}	500	W	
Peak Pulse Current (T _P =8/20μS)	I _{PP}	5	Α	
Operating Temperature	T_J	-55 to +150	℃	
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$	

Electrical Characteristics

(T_A=25°C, Unless otherwise specified.)

Parameter	Symbols	Conditions	Min	Тур	Max	Units
Reverse stand-off voltage	V_{RWM}				36	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	40			V
Reverse Leakage Current	I _R	V _{RWM} =36V			1	μΑ
Clamping Voltage	V _C	I _{PP} =5Α, T _P =8/20μs			100	V
Junction Capacitance	CJ	V _R =0V,f=1MHz		13		pF



Typical Characteristic Curves

Fig.1 Peak Pulse Power vs Pulse Time

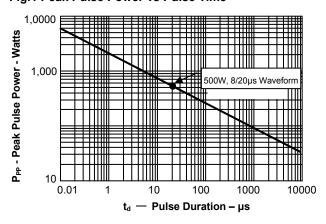


Fig.2 Pulse WaveForm-8/20µs

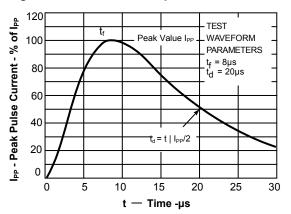


Fig.3 Power Derating Curve

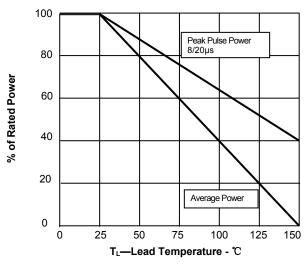
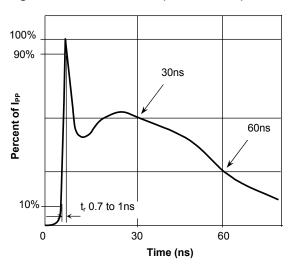
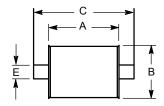
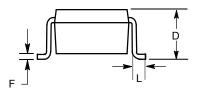


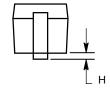
Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions



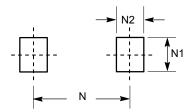




Dim	millmeters			
Dilli	min	max		
A	1.60	1.90		
В	1.15	1.45		
С	2.39	2.70		
D	0.80	1.10		
Е	0.25	0.40		
F	0.10	0.20		
Н		0.10		
L	0.20	-		

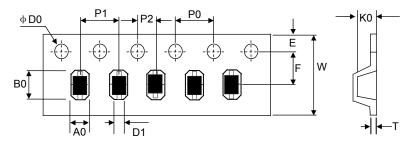


PAD Dimensions



Dim	millmeters
N1	0.80
N2	0.80
N	3.00

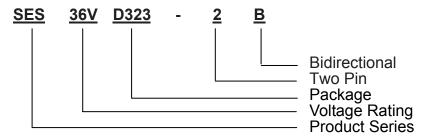
Package Information



Unit:mm

1	Α0	В0	K0	D1	ф D 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

Part Number System



Marking



Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES36VD323-2B	SOD-323	0.0045g	Tape & Reel	3000pcs	RoHS compliant



Revision History

Date	Revision	Description of changes
21-October-2018	A0	First issue

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