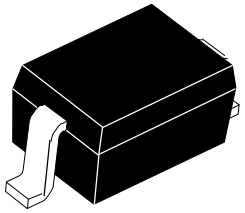
Features

- 350W 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 ±15kV (Air) ESD protection
- IEC 61000-4-2 ±8kV (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant

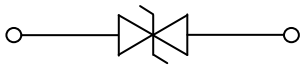
Applications

- Laptop computers
- Cellular phones
- Digital cameras
- PDAs

SES5VD323-2B



SOD-323



Schematic Diagram

Absolute Maximum Ratings

(T_A=25℃, Unless otherwise specified.)

Rating	Symbols	Value	Units
Peak Pulse Power (T_P=8/20μS)	P_{PP}	350	W
Peak Pulse Current (T_P=8/20μS)	I_{PP}	13.5	A
Operating Temperature	T_J	-55 to +150	℃
Storage temperature	T_{STG}	-55 to +150	℃

Electrical Characteristics

(T_A=25℃, Unless otherwise specified.)

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	6		7.8	V
Reverse Leakage Current	I_R	V_{RWM}=5V			1	μA
Clamping Voltage	V_C	I_{PP}=1A，T_P=8/20μs			9.8	V
Clamping Voltage	V_C	I_{PP}=9.8A，T_P=8/20μs		17		V
Clamping Voltage	V_C	I_{PP}=13.5A，T_P=8/20μs		25		V
Junction Capacitance	C_J	V_R=0V,f=1MHz		25		pF

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Typical Characteristic Curves

Fig.1 Peak Pulse Power vs Pulse Time

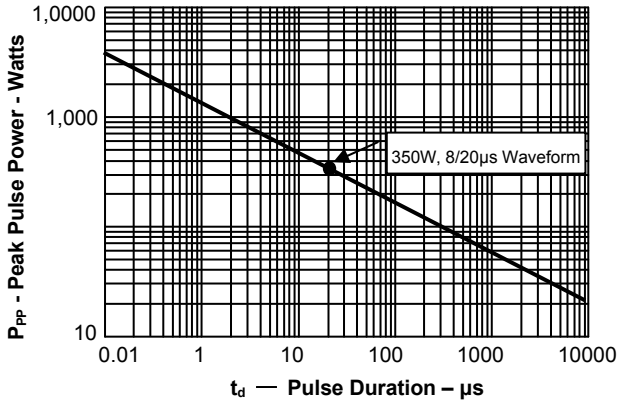


Fig.2 Pulse WaveForm-8/20μs

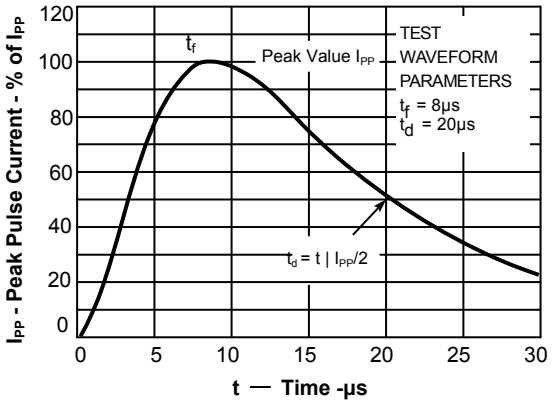


Fig.3 Power Derating Curve

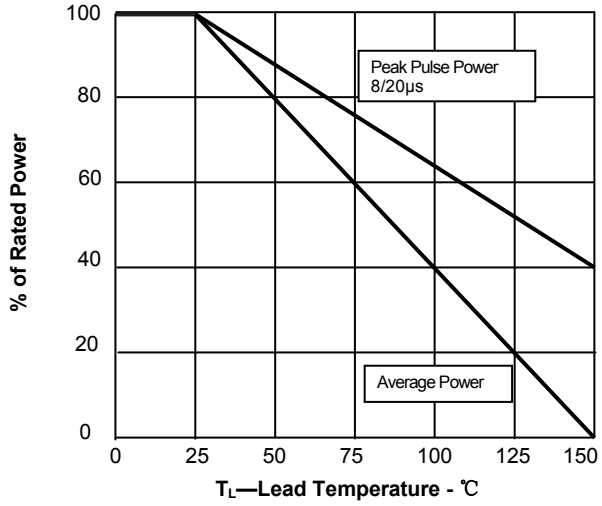
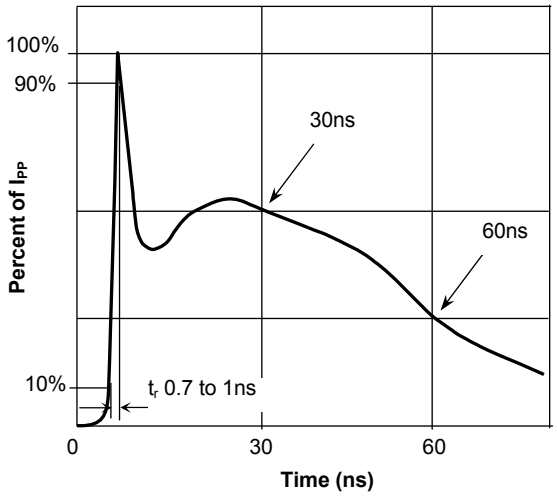
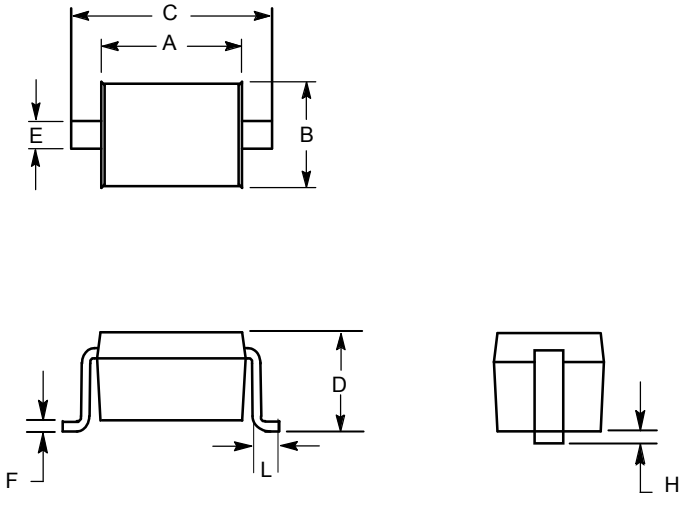


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



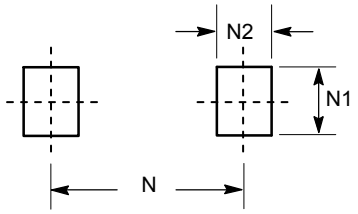
Product Dimensions



Dim	millmeters	
	min	max
A	1.60	1.90
B	1.15	1.45
C	2.39	2.70
D	0.80	1.10
E	0.25	0.40
F	0.10	0.20
H		0.10
L	0.20	-

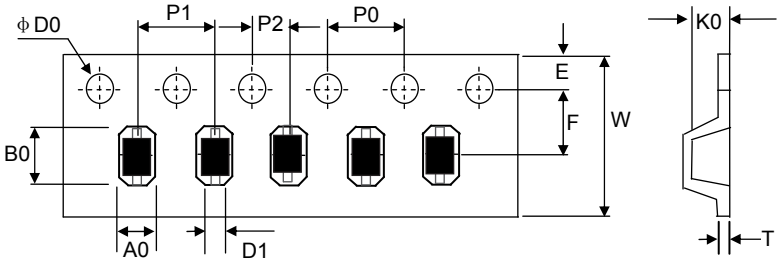
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PAD Dimensions



Dim	millmeters
N1	0.80
N2	0.80
N	3.00

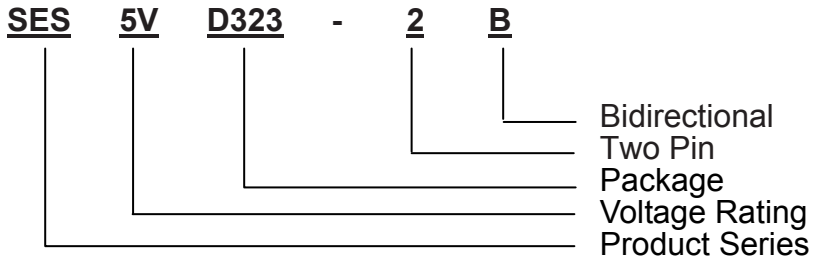
Package Information



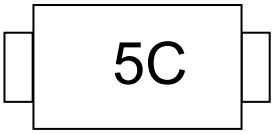
Unit:mm

A0	B0	K0	D1	ϕD0	E	F	W	P0	P1	P2	T
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
SES5VD323-2B	SOD-323	0.0045g	Tape & Reel	3000pcs	RoHS compliant

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Revision History

Date	Revision	Description of changes
8-October-2011	A0	First issue
12-December-2012	A1	Modify
24-March-2014	A2	Add Ipp
27-June-2014	A3	Update Cj

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