

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

Absolute Maximum Ratings

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

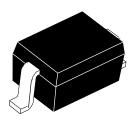
(I _A =25°C, Unless otherwise specified.)					
Rating	Symbols	Value	Units		
Peak Pulse Power (T _P =8/20µS)	P _{PP}	350	W		
Peak Pulse Current (T _P =8/20µS)	I _{PP}	13.5	А		
Operating Temperature	TJ	-55 to +150	°C		
Storage temperature	T _{STG}	-55 to +150	°C		

Electrical Characteristics

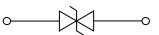
(T_A=25 $^{\circ}$ C, Unless otherwise specified.)

Parameter	Symbols	Conditions	Min	Тур	Max	Units
Reverse stand-off voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I⊤=1mA	6		7.8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	Vc	I _{PP} =1Α,T _P =8/20μs			9.8	V
Clamping Voltage	Vc	I _{PP} =9.8A, Τ _P =8/20μs		17		V
Clamping Voltage	Vc	I _{PP} =13.5A, T _P =8/20µs		25		V
Junction Capacitance	CJ	V _R =0V,f=1MHz		25		pF

SES5VD323-2B







Schematic Diagram



Typical Characteristic Curves

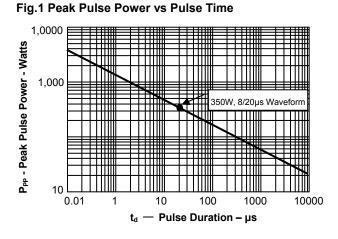
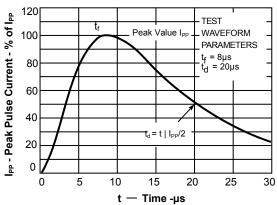
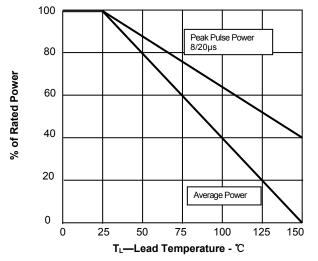
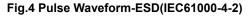


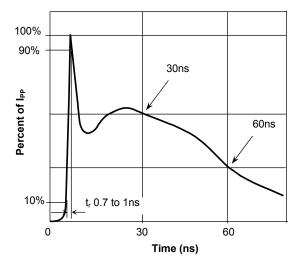
Fig.2 Pulse WaveForm-8/20µs



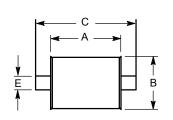


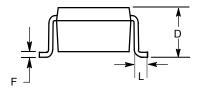


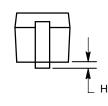




Product Dimensions



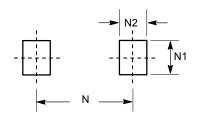




millmeters			
min	max		
1.60	1.90		
1.15	1.45		
2.39	2.70		
0.80	1.10		
0.25	0.40		
0.10	0.20		
	0.10		
0.20	-		
	min 1.60 1.15 2.39 0.80 0.25 0.10		

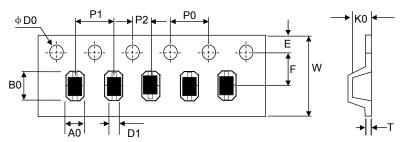


PAD Dimensions



Dim	millmeters
N1	0.80
N2	0.80
Ν	3.00

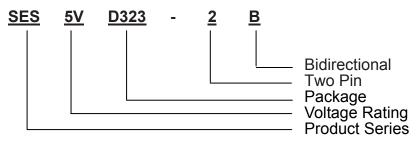
Package Information



Unit:mm

Ι	A0	В0	K0	D1	φD0	E	F	W	P0	P1	P2	Т
ł	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



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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