

Features

- 200W peak pulse power (tp= 8/20µs)
- SOD-523 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

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Absolute Maximum Ratings

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

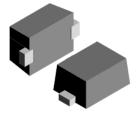
Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	200	W
Peak Pulse Current (T _P =8/20µS)	I _{PP}	9.4	A
Operating temperature	TJ	-55 to 150	°C
Storage temperature	T _{STG}	-55 to 150	°C

Electrical Characteristics

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

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.6		7.8	V
Reverse Leakage Current	I _R	V _R =5V			1	μA
Clamping Voltage	Vc	I _{PP} =5A,T _P =8/20μS			11.6	V
Clamping Voltage	Vc	I _{PP} =9.4A,T _P =8/20μS			18.6	V
Junction Capacitance	CJ	V _R =0V,f=1MHz		25		pF

SES5VD523-2B



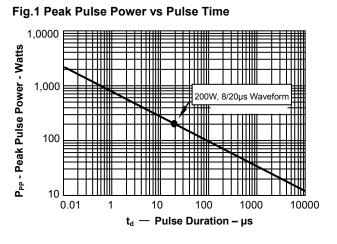
SOD-523

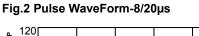


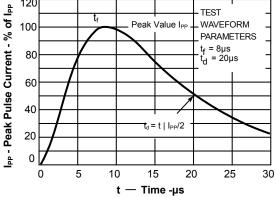
Schematic Diagram



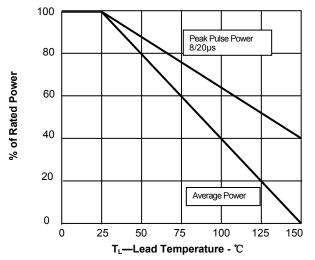
Typical Characteristic Curves

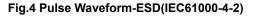


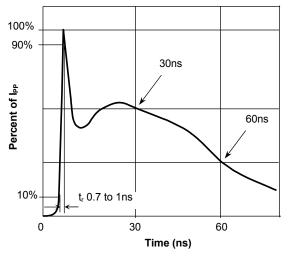




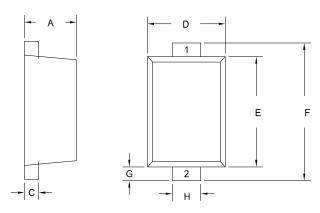








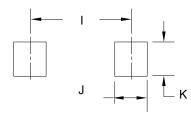
Product Dimensions



Dim	millm	eters
Dilli	min	max
А	0.50	0.70
С	0.07	0.20
D	0.70	0.90
Е	1.10	1.30
F	1.50	1.70
G	0.15	0.25
Н	0.25	0.35

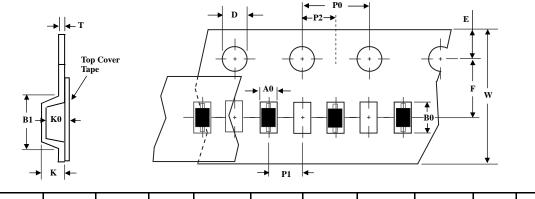


PAD Dimensions



Dim millmeters		
Ι	1.35	
J	0.35	
К	0.39	

Package Information

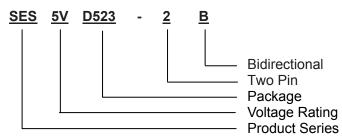


TapeSize(W)	B1 max	D	Е	F	K max	P0	P1	P2	T max	W max
8	4.55	1.55±0.05	1.75±0.1	3.5±0.05	2.4	4.0±0.1	2.0±0.05	2.0±0.05	0.6	8.3

Note:1.unit : mm

2. A0, B0, and K0 are determined by component size. The clearance between the components and the cavity must be within 0.05mm min to 0.50 mm max. The component cannot rotate more than 10° within the determined cavity.

Part Number System



Marking





Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES5VD523-2B	SOD-523	0.0014g	Tape & Reel	3000pcs / Reel	RoHS compliant

Revision history

Date	Revision	Description of changes
14-September-2011	A0	First issue
1-January-2015	A3	Modify Qty/Reel

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