

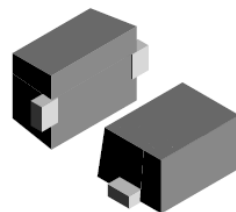
Features

- 100 Watts peak pulse power ($t_p = 8/20\mu s$)
- Tiny SOD923 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 $\pm 30KV$ contact
 $\pm 30KV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 8A (8/20 μs)

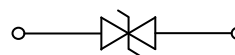
Applications

- Cell Phone
- PDA
- Notebook
- Digital Cameras
- Portable Instrumentation
- Audio and video equipment

SES5VD923-2B



SOD923



Schematic Diagram

Absolute Maximum Ratings

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P = 8/20\mu s$)	P_{PP}	100	W
Peak Pulse Current ($t_P = 8/20\mu s$)	I_{PP}	8	A
Junction Temperature	T_J	-55 to +125	$^\circ C$
Storage temperature	T_{STG}	-55 to +150	$^\circ C$

Electrical Characteristics

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

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6	6.8	8	V
Reverse Leakage Current	I_R	$V_R = 5V$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A, T_P = 8/20\mu s$			10	V
	V_C	$I_{PP} = 8A, T_P = 8/20\mu s$			13	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		15		pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

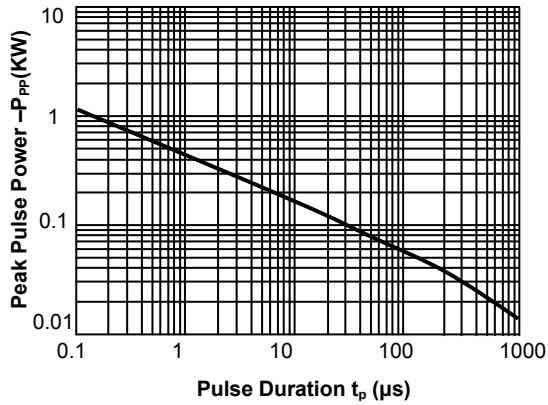


Fig.2 Pulse Derating Curve

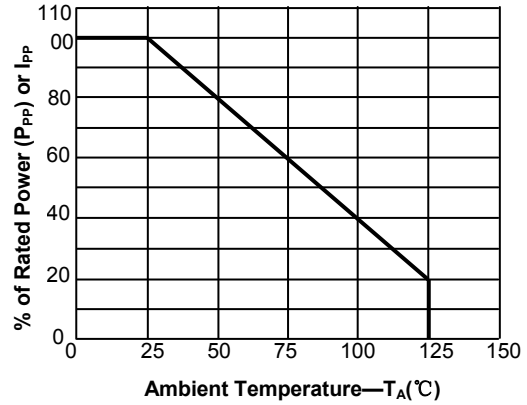


Fig.3 Pulse Waveform-8/20μs

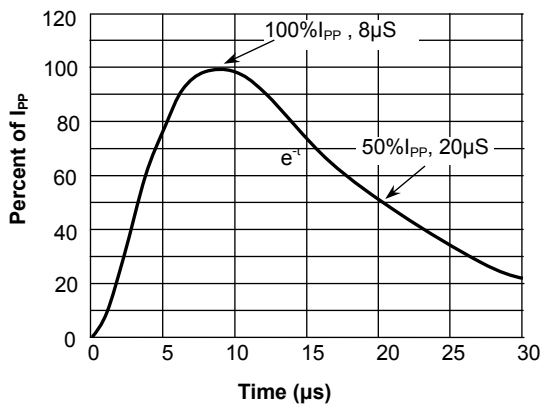
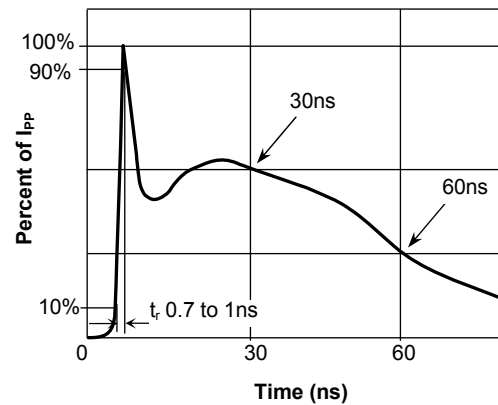
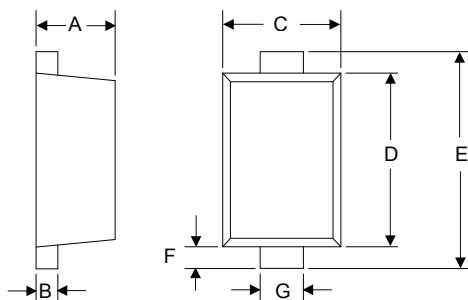


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

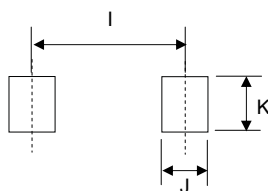


Product Dimensions



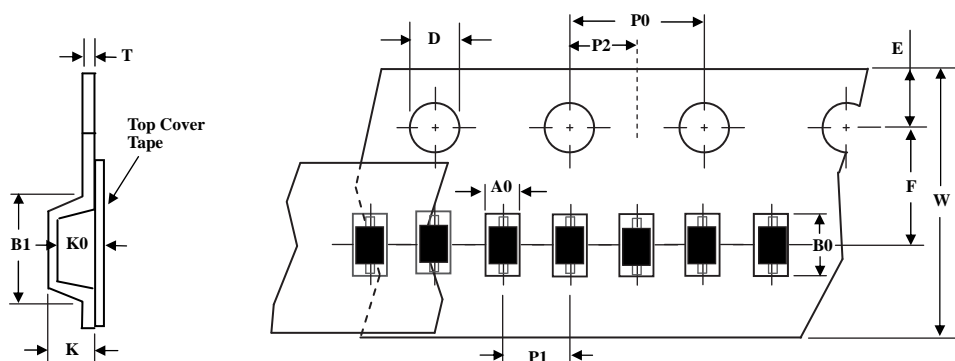
Dim	millimeters	
	min	max
A	0.36	0.43
B	0.07	0.17
C	0.55	0.65
D	0.75	0.85
E	0.95	1.05
F	0.05	0.15
G	0.15	0.25

PAD Dimensions



Dim	millimeters
I	0.90
J	0.30
K	0.35

Package Informations

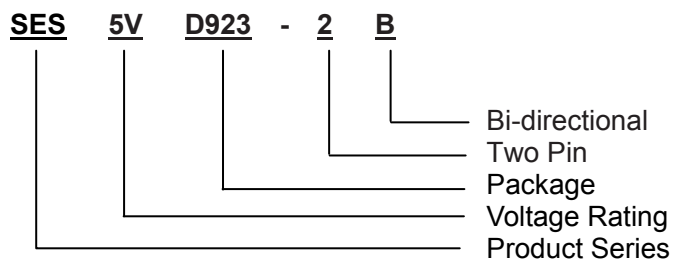


TapeSize(W)	B1 max	D	E	F	K max	P0	P1	P2	T max	W max
8	4.55	1.55±0.05	1.75±0.1	3.5±0.05	2.4	4.0±0.1	2.0±0.05	2.0±0.05	0.6	8.3

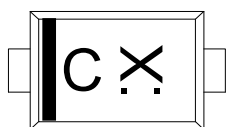
Note:1.Unit : mm

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



× : DateCode

Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES5VD923-2B	SOD923	0.0006g	Tape & Reel	8000pcs / Reel	RoHS compliant

Revision history


Date	Revision	Description of changes
27-November-2011	A0	First issue
19-March-2016	A2	Modify

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