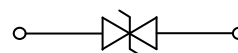


Features

- 44Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-923 package
- Bidirectional configuration
- Protects one I/O port
- Low clamping voltage
- Low leakage current
- RoHS compliant
- Protection one data/power line to:
 IEC 61000-4-2 $\pm 8kV$ contact $\pm 15kV$ air
 IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 2.3A (8/20 μs)



Package: SOD-923



Schematic Diagram

Applications

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

Absolute Maximum Ratings ($T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Max.	Unit
Peak Pulse Power ($T_P=8/20\mu S$)	P_{PP}	44	W
Peak Pulse Current ($T_P = 8/20\mu S$)	I_{PP}	2.3	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	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	4	-	-	V
Reverse Leakage Current	I_R	$V_R=3.3V$	-	-	2.5	μA
Clamping Voltage	V_C	$I_{PP}=2.3A, T_P=8/20\mu S$	-	-	19	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	15	22.5	pF

Typical Characteristic Curves

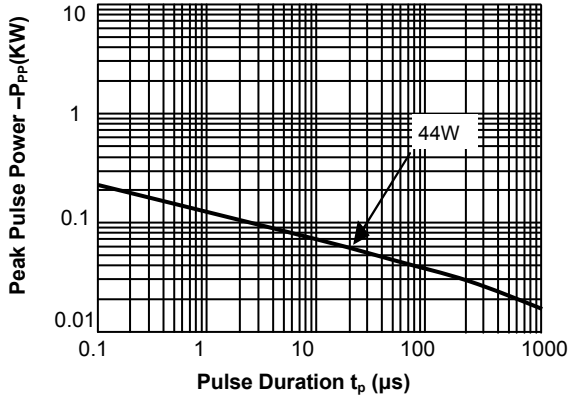


Fig.1 Peak Pulse Power Rating Curve

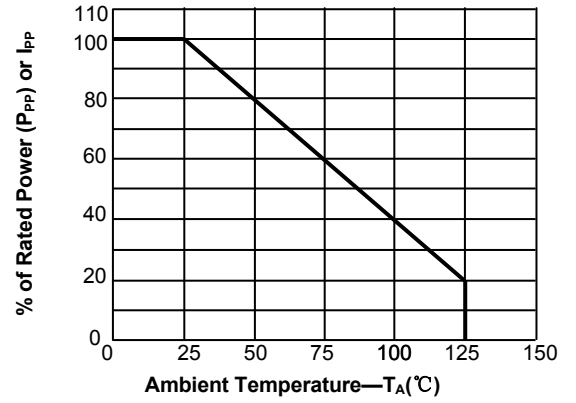


Fig.2 Pulse Derating Curve

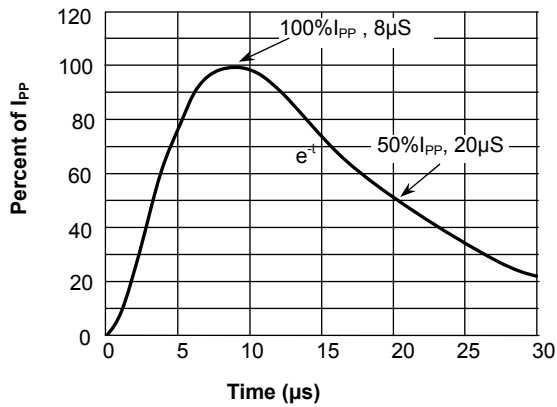


Fig.3 Pulse Waveform-8/20μs

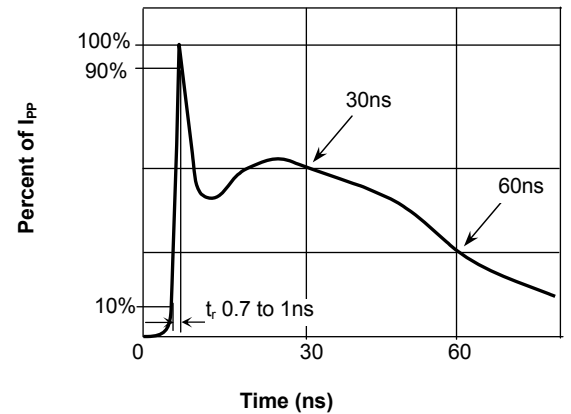
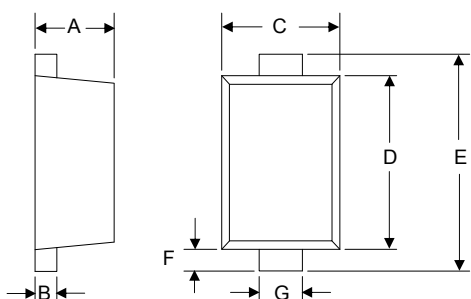


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

Package Outline Dimensions (SOD-923)



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

Order Information

Device	Package	Marking	Quantity	HSF Status
SES3V3D923-2B	SOD-923	B	8,000pcs/Reel	RoHS compliant