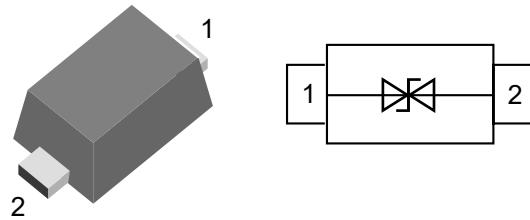


Features

- 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
- Medium capacitance ($C_j=15pF$ typ.)
- Protection one data/power line to:
 IEC 61000-4-2 ±30kV contact ±30kV air
 IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 8A (8/20μs)



Mechanical Data

- **Case:** SOD923 (plastic package).
 Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**
 UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
 260 °C/10 sec. at terminals

Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

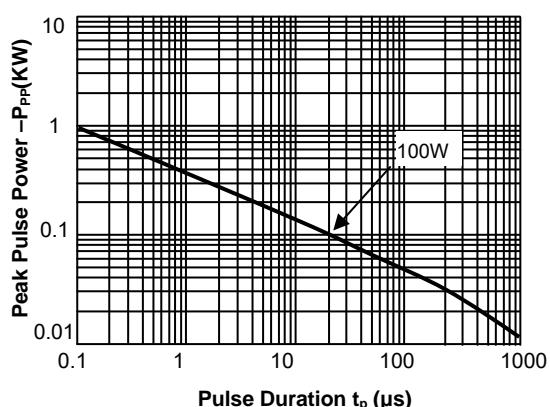
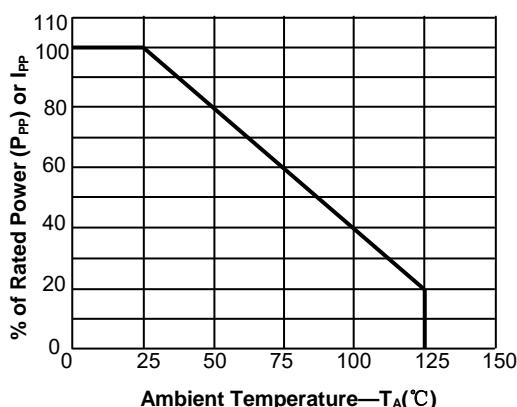
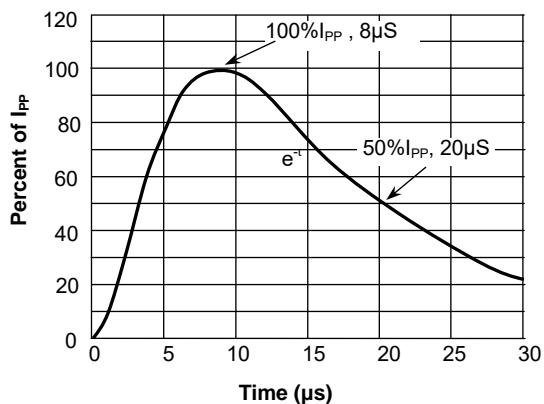
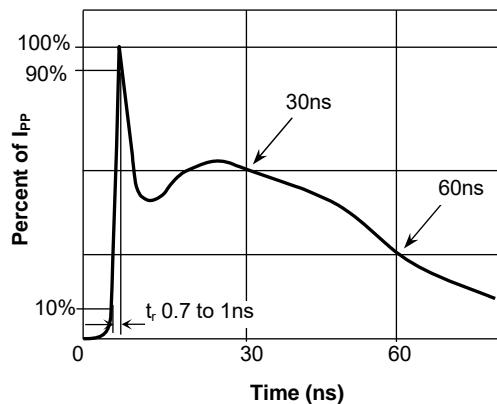
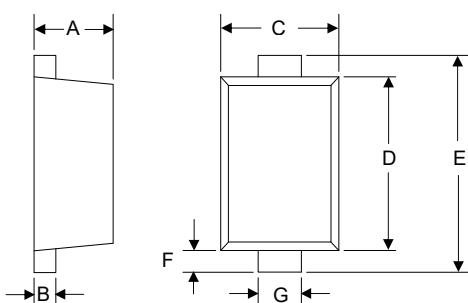
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p=8/20\mu s$)	P_{PP}	100	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	30/30	kV
Peak Pulse Current ($T_p = 8/20\mu s$)	I_{PP}	8	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

($T_A = 25$ °C unless otherwise specified)

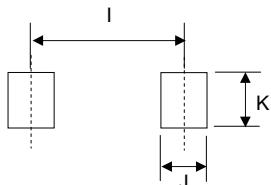
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	5.6	6.8		V
Reverse Leakage Current	I_R	$V_R=5V$			1.0	uA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=8A$		10	13	V
Clamping Voltage (IEC 61000-4-2)	V_C	$V_{ESD}=8kV$		10		V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		15		pF

Typical Characteristics ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)

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 Dimensions


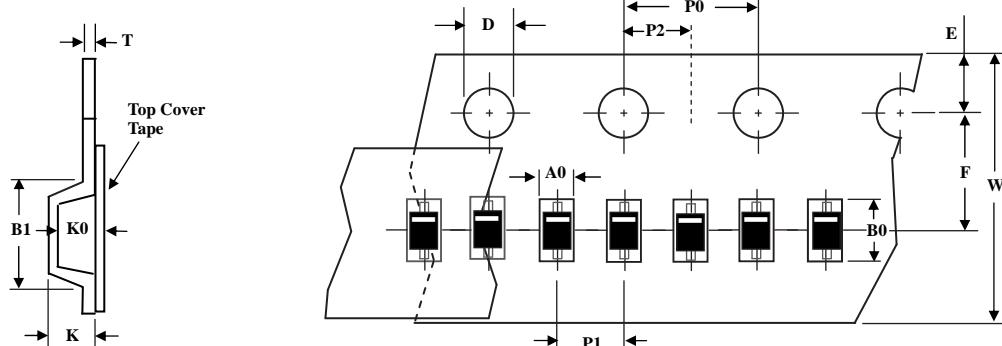
Dim	millimeters	
	min	max
A	0.35	0.45
B	0.07	0.17
C	0.55	0.80
D	0.75	0.85
E	0.95	1.20
F	0.05	0.15
G	0.15	0.25

Pad Dimensions



Dim	millimeters
I	0.9
J	0.4
K	0.3

Package Informations

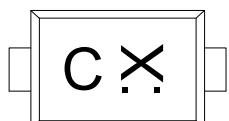


TapeSize(W)	B1 max	D	E	F	K max	P0	P1	P2	T max	W max
8	4.55	1.55±0.05	1.75±0.1	3.5±0.05	2.4	4.0±0.1	2.0±0.05	2.0±0.05	0.6	8.3

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.

Marking



× : DateCode

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDSD920508AG	SOD-923	Tape and reel	8000pcs / reel	EIA STD RS-481