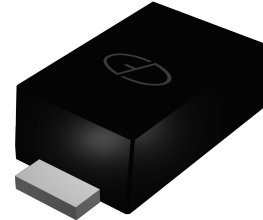


GSESLC3V3D923-2U

Low Capacitance ESD Protection Diode

Features

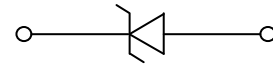
- 100W peak pulse power ($T_P=8/20\mu S$)
- SOD-923 package
- Unidirectional configuration
- Protects one I/O port
- Ultra low capacitance
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2
 $\pm 15KV$ contact , $\pm 15KV$ air
- RoHS compliant



Package: SOD-923

Applications

- Digital Visual Interface (DVI)
- LVDS
- USB
- High Definition Multi-Media Interface (HDMI)



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}	5	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}		-	-	3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	5.0	-		V
Reverse Leakage Current	I_R	$V_R=3.3V$	-	-	1.0	μA
Clamping Voltage	V_C	$I_{PP}=1A, T_P=8/20\mu S$	-	8	12	V
Clamping Voltage	V_C	$I_{PP}=5A, T_P=8/20\mu S$	-	16	20	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	0.45	0.65	pF

Typical Characteristic Curves

Fig.1 ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2

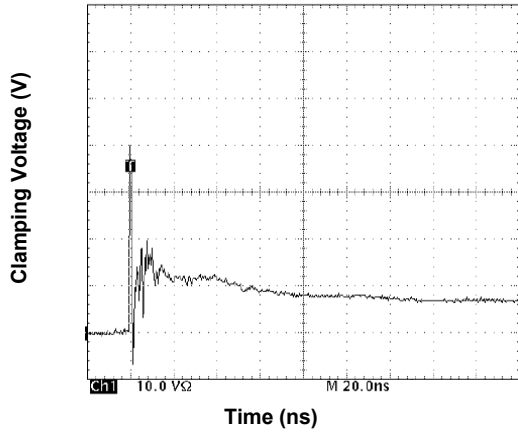


Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2

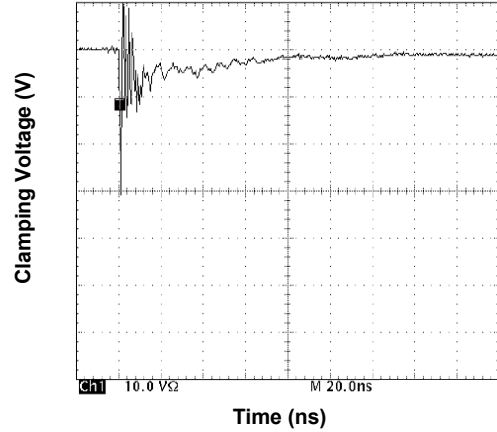


Fig.3 Pulse Waveform-8/20μs

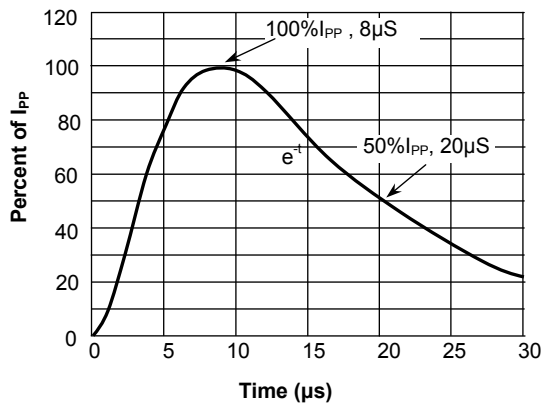
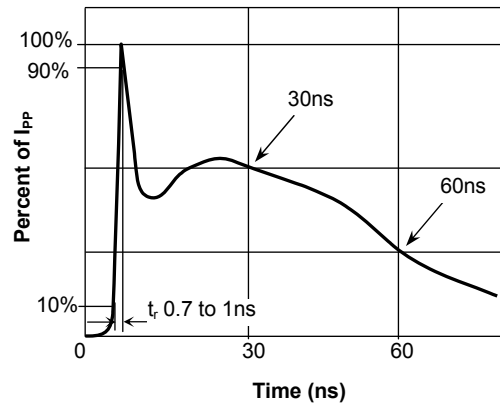
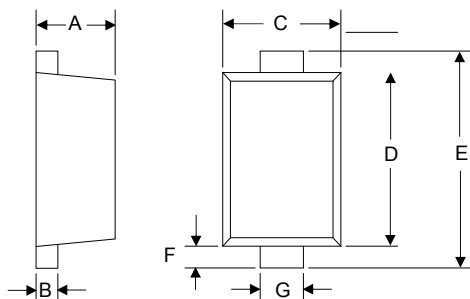


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions

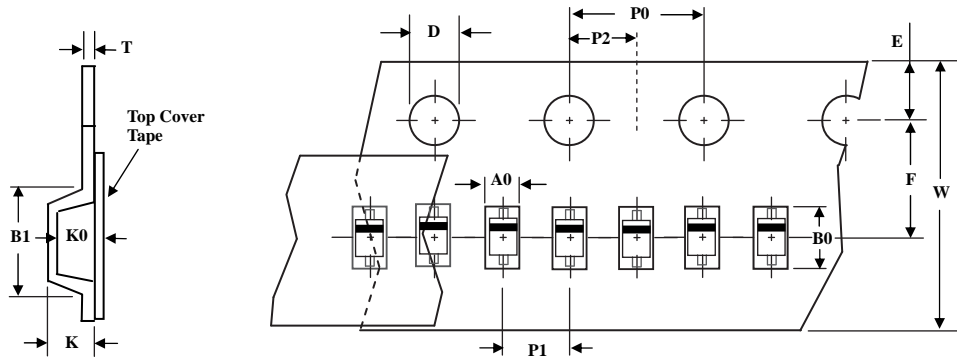


Dim	millimeters	
	min	max
A	0.34	0.43
B	0.07	0.17
C	0.55	0.65
D	0.75	0.85
E	0.95	1.05
F	0.05	0.15
G	0.15	0.25

GSESLC3V3D923-2U

Low Capacitance ESD Protection Diode

Package Information



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.

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
GSESLC3V3D923-2U	SOD-923	P	Tape & Reel	10000pcs / Reel	RoHS compliant