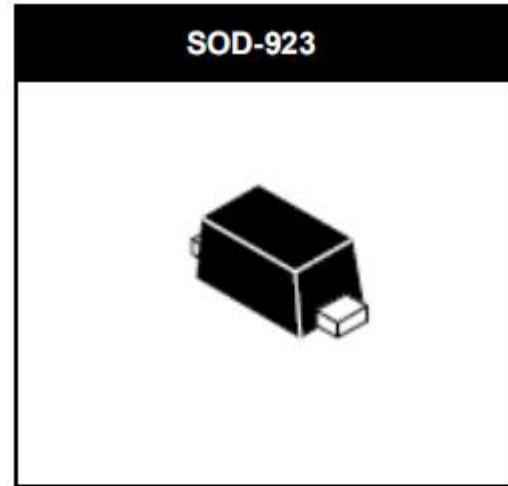


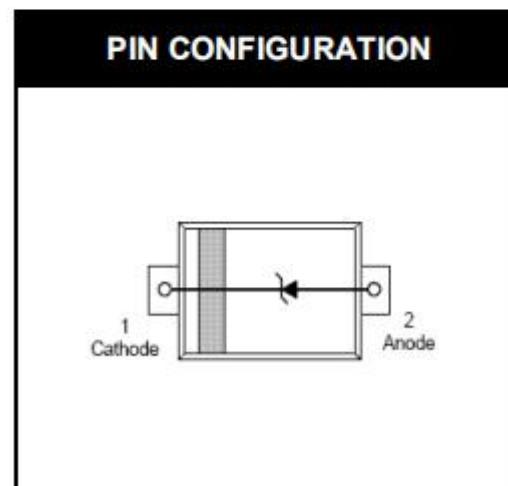
DESCRIPTION

The ESD9D Series is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.



APPLICATIONS

- ✧ Cellular phones audio.
- ✧ MP3 players.
- ✧ Digital cameras.
- ✧ Portable applications.
- ✧ mobile telephone.



FEATURES

- ✧ Small Body Outline Dimensions:
0.039" x 0.024"(1.0 mm x 0.60 mm).
- ✧ Low Body Height: 0.017" (0.43 mm) Max.
- ✧ Stand-off Voltage: 3.3 V – 24 V.
- ✧ Low Leakage.
- ✧ Response Time is Typically < 1 ns.

COMPLIES WITH THE FOLLOWING STANDARDS

- ✧ IEC61000-4-2.
- ✧ Level 4 15 kV (air discharge)
8 kV(contact discharge) .
- ✧ MIL STD 883E - Method 3015-7 Class 3
25 kV HBM (Human Body Model) .

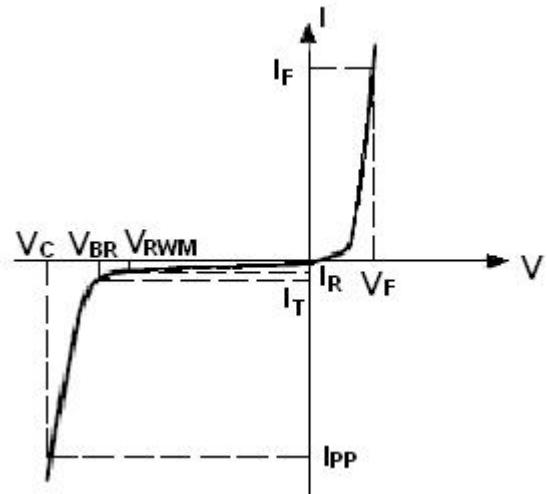
DEVICE CHARACTERISTICS

Maximum Ratings

Symbol	Rating	Value	Unit
	IEC 61000-4-2 (ESD) Contact	8	kV
	ESD Voltage Per Human Body Model Per Machine Model	25 400	kV V
P _D	Peak Pulse Power ($t_p = 8/20\mu s$) @ TA=25°C	60	W
T _{J,TSTG}	Junction and Storage Temperature Range	-55 to 150	°C
T _L	Lead Solder Temperature - Maximum (10 Second Duration)	260	°C

ELECTRICAL PARAMETER

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
I _T	Test Current
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
V _{BR}	Breakdown Voltage @ I _T



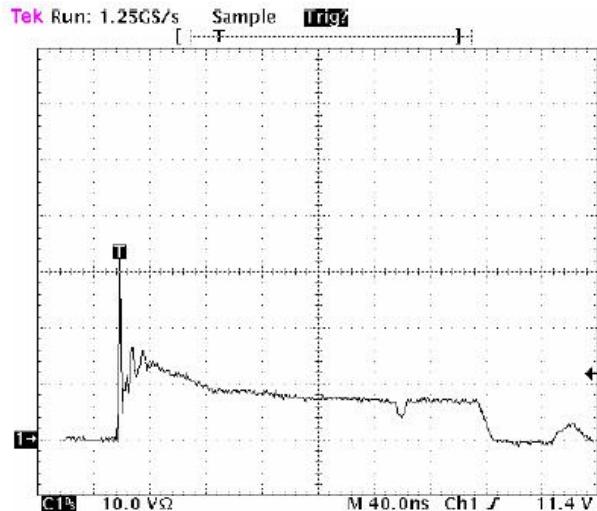


Fig 4. Positive 8kV contact per IEC

61000-4-2-ESD9D5V

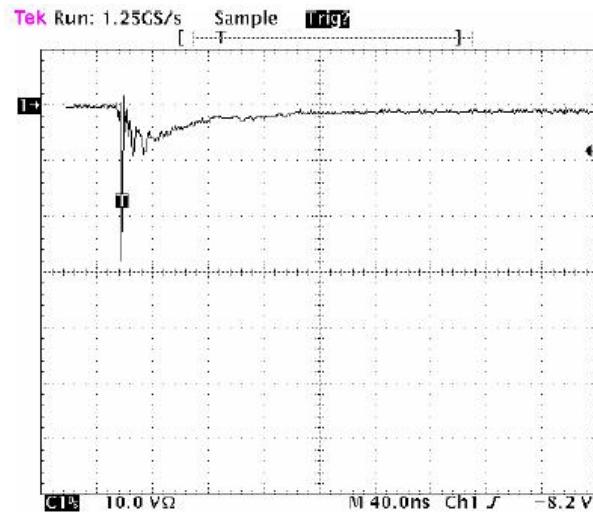
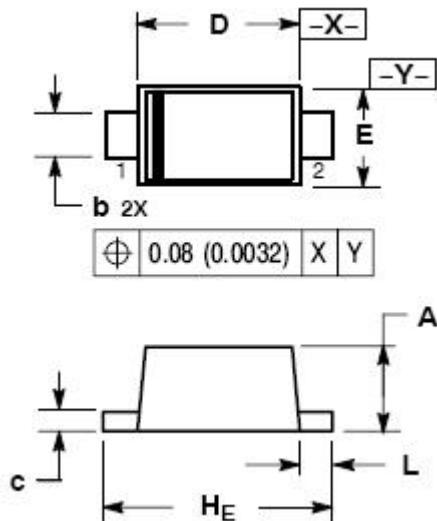


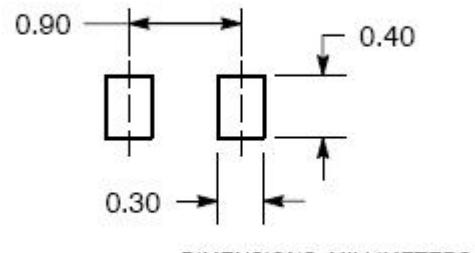
Fig 5. Negative 8kV contact per IEC

61000-4-2-ESD9D5V

SOD-923 MECHNICAL DATA



SOLDERING FOOTPRINT*



SOD-923

Dim	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
A	0.36	0.40	0.43	0.014	0.016	0.017
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
H _E	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

©Copyright 2016, jksemi



is a registered trademark of jksemi All rights are reserved