

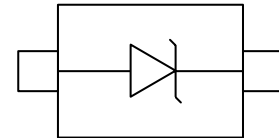
## ESD Protection Diodes in SOD-923 Package

### FEATURES

- High reliability
- Compact design for mounting on small surface areas
- Stand-off voltages : 3.3V , 5V
- JEDEC SOD-923 package
- Low Leakage
- Response Time < 1ns
- IEC61000-4-2 level 4 ESD protection
- Excellent ESD Rating of Calss 3 (>16kV) per Human Body Model
- Void-free , Transfer-molded Case

The NxxAD92 ESD Protection Diode Series is designed to protect voltage-sensitive components from ESD.

### SCHEMATIC



### MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Total Power Dissipation @ TA = 25 °C	P <sub>D</sub>	150	mWatts
Junction and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C
Lead Solder Temperature (10 sec. duration)	T <sub>L</sub>	260	°C

Notes:

1. FR-5 = 1.0 x 0.75 x 0.62 in.

### ELECTRICAL CHARACTERISTICS

DEVICE	V <sub>RWM</sub> (V)	I <sub>R</sub> (µA) @ V <sub>RWM</sub>	V <sub>BR</sub> (V) @ I <sub>T</sub> (Note 2)	I <sub>T</sub>	C (pF) (Note 3)	C (pF) (Note 3)
	Max.	Max.	Min.	mA	Typ.	Max.
N03AD92	3.3	1.0	5.0	1.0	12.8	13
N05AD92	5.0	0.5	11.0	1.0	6.0	6.2

Notes:

2. V<sub>BR</sub> is measured with a pulse test current I<sub>T</sub> at an ambient temperature of 25°C.
3. Capacitance at f = 1MHz, V<sub>R</sub> = 0V, T<sub>A</sub> = 25°C.

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**PACKAGE DIMENSIONS**

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.37	0.40	0.013	0.015	0.016
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 <sub>E</sub>	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

