

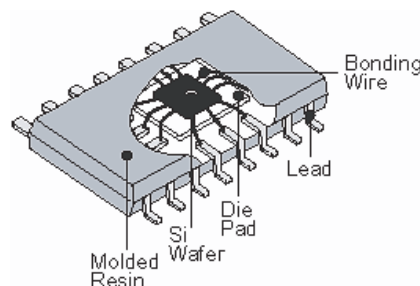
## CDA Series-G (RoHS Device)

### Features

- (16kV) IEC 61000-4-2 capable
- Fast Reverse Recovery Time
- Fast Turn on Time
- Low Capacitance
- SMD Packages

### Applications

- Signal Termination
- Signal Conditioning
- ESD Suppression
- Transient Suppression



### Schematics

|                                |                                |                               |
|--------------------------------|--------------------------------|-------------------------------|
| <p><b>CDA4Q20-G 20 pin</b></p> | <p><b>CDA2Q20-G 20 pin</b></p> | <p><b>CDA3S06-G 6 pin</b></p> |
| <p><b>CDA4S14-G 4 pin</b></p>  | <p><b>CDA5Q24-G 24 pin</b></p> | <p><b>CDA6N08-G 8 pin</b></p> |
| <p><b>CDA7Q24-G 24 pin</b></p> | <p><b>CDA8S03-G 3 pin</b></p>  | <p><b>CDA9N08-G 8 pin</b></p> |

# Steering Diode Arrays - ESD Suppressors

## Absolute Maximum Ratings: ( Ta = 25°C )

| Symbol          | Parameter                     | Value      | Units |
|-----------------|-------------------------------|------------|-------|
| T <sub>OP</sub> | Operating temperature         | -40 to +85 | °C    |
| V <sub>S</sub>  | Supply voltage (rail to rail) | 8          | V     |
| I <sub>F</sub>  | Continuous forward current *  | 50         | mA    |

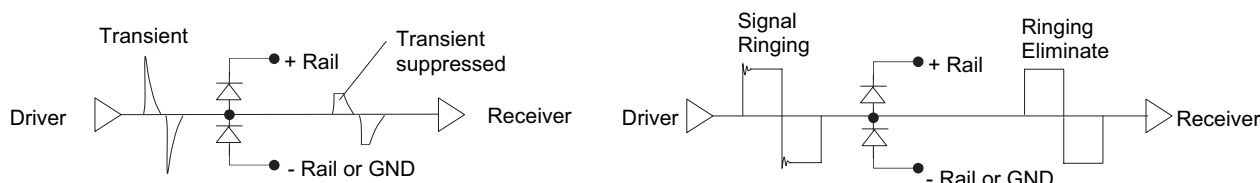
\* One diode conducting.

## Electrical Ratings: ( Ta = 25°C )

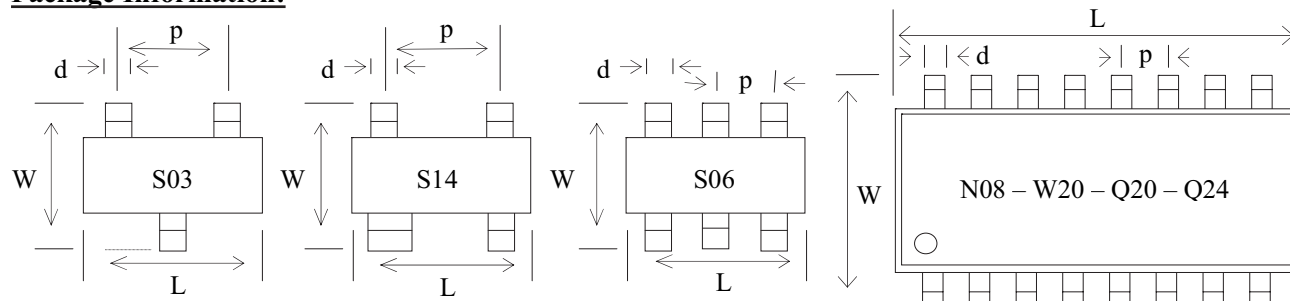
| Symbol          | Characteristic              | Min   | Max   | Units | Test Condition         |
|-----------------|-----------------------------|-------|-------|-------|------------------------|
| V <sub>F</sub>  | Forward voltage             | 0.6   | 0.95  | V     | I <sub>F</sub> = 50 ma |
| V <sub>R</sub>  | Reverse breakdown voltage   | 7.2   | -     | V     | I <sub>R</sub> = 1 ma  |
| I <sub>L</sub>  | Reverse leakage current     | ± 0.1 | ± 2.0 | uA    | 7.1v                   |
| C <sub>T</sub>  | Capacitance                 | 1.0   | 5.0   | pF    | @ 1Mhz                 |
| V <sub>PV</sub> | Peak ESD voltage capability |       | 16    | kV    | IEC 61000-4-2          |

**Application:** (ESD Suppression)

( Signal Conditioning )



## Package Information:



| Package Code | Total Power | Number of Pins | L ± 0.2 | W ± 0.2 | p ± 0.1 | Pkg. Height ± 0.2 | d ± 0.05 |
|--------------|-------------|----------------|---------|---------|---------|-------------------|----------|
| S03          | 225 mw      | 3              | 2.92    | 2.30    | 1.91    | 0.95              | 0.43     |
| S14          | 225 mw      | 4              | 2.92    | 2.30    | 1.91    | 0.95              | 0.43     |
| S06          | 225 mw      | 6              | 2.92    | 2.80    | 0.95    | 0.95              | 0.43     |
| N08          | 400 mw      | 8              | 4.83    | 5.99    | 1.27    | 1.60              | 0.41     |
| W20          | 1200mw      | 20             | 12.70   | 10.36   | 1.27    | 2.40              | 0.41     |
| Q20          | 1000mw      | 20             | 8.66    | 5.99    | 0.635   | 1.60              | 0.25     |
| Q24          | 1000mw      | 24             | 8.66    | 5.99    | 0.635   | 1.60              | 0.25     |

## Ordering Information:

**CDA**

### Type

CDA  
CDA2  
CDA3  
CDA4  
CDA5  
CDA6  
CDA7  
CDA8  
CDA9

**Q20**

### Package

S03 = 3 pin SOT23  
S14 = 4 pin SOT23  
S06 = 6 pin SOT23  
N08 = 8 pin Narrow SOIC  
W20 = 20 pin Wide SOIC  
Q20 = 20 pin QSOP  
Q24 = 24 pin QSOP

**-G**

### RoHS Compliant

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