Steering Diode Arrays - ESD Suppressors



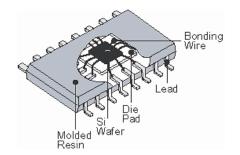
CDA Series-G (RoHS Device)

Features

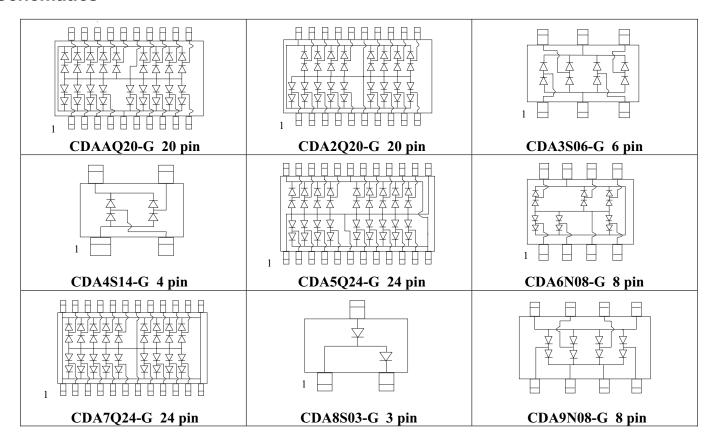
- (16kV) IEC 61000-4-2 capable
- Fast Reverse Recovery Time
- Fast Turn on Time
- Low Capacitance
- SMD Packages

Applications

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



Schematics



Steering Diode Arrays - ESD Suppressors



Absolute Maximum Ratings: ($Ta = 25^{\circ}C$)

Symbol	Parameter	Value	Units
T_{OP}	Operating temperature	-40 to +85	$^{0}\mathrm{C}$
V_{S}	Supply voltage (rail to rail)	8	V
I_{F}	Continuous forward current *	50	mA

^{*} One diode conducting.

Electrical Ratings: ($Ta = 25^{\circ}C$)

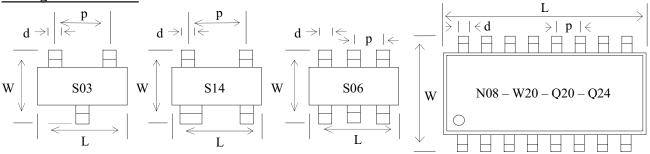
Symbol	Characteristic	Min	Max	Units	Test Condition
V_{F}	Forward voltage	0.6	0.95	V	$I_F = 50 \text{ ma}$
V_R	Reverse breakdown voltage	7.2	-	V	$I_R = 1 \text{ ma}$
$I_{\rm L}$	Reverse leakage current	± 0.1	± 2.0	uA	7.1v
C_{T}	Capacitance	1.0	5.0	pF	@ 1Mhz
V_{PV}	Peak ESD voltage capability		16	kV	IEC 61000-4-2

Application: (ESD Suppression)

(Signal Conditioning)



Package Information:



Package	Total	Number	$L \pm 0.2$	$W \pm 0.2$	p ± 0.1	Pkg. Height	d ± 0.05
Code	Power	of Pins				<u>+</u> 0.2	
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:

CDAA	Q20	-G
Type	Package	RoHS Compliant
CDAA	S03 = 3 pin SOT23	
CDA2	S14 = 4 pin SOT23	
CDA3	S06 = 6 pin SOT23	
CDA4	N08 = 8 pin Narrow SOIC	
CDA5	W20 = 20 pin Wide SOIC	
CDA6	Q20 = 20 pin QSOP	
CDA7	Q24 = 24 pin QSOP	
CDA8	_ -	
CDA9		