

## General Purpose

Electrical Characteristics,  $T_A = 25^\circ\text{C}$

Type	$V_{IO}$ Max. mV	$I_I$ Max. nA	$I^+$ Max. Ma	Max. $V^+$ , $V^-$	AOL (Min.) dB	Unity Gain BW Typ. MHz	SR (Typ.) $V/\mu\text{s}$	Pkg. No. of Pins*
<b>Single-Unit Types</b>								
CA311	7.5	250	8	$\pm 18$	106	Response Time 1	8E, S, T	
<b>Dual-Unit Types</b>								
CA3290	20	50pA	3	$\pm 18$	88	Response Time 2	8E, S, T 14E1	
CA3290A	10	40pA	3	$\pm 18$	88			
<b>Quad-Unit Types</b>								
CA139	5	100	8	$\pm 18$	-	Response Time 3	14E	
CA139A	2	100	8	$\pm 18$	94		14E	
CA239	5	250	2	$\pm 18$	-		14E	
CA239A	2	250	2	$\pm 18$	94		14E	
CA339	5	250	2	$\pm 18$	94		14E	
CA339A	2	250	2	$\pm 18$	94		14E	

\* See interpretation guide and packaging section

Response Time:

- 1 - 200 ns
- 2 -  $t_r = 1.2 \mu\text{s}$ ,  $t_f = 200 \text{ ns}$
- 3 -  $t_r = 1.3 \mu\text{s}$ ,  $t_f = 300 \text{ ns}$

## High-Speed

Type	$V_{IO}$ mV	Propagation Delay ns	Tracking Bandwidth MHz
HFA-003	0.1	<3	300

Type	$V_{IO}$ mV	$I_{IO}$ nA	Comments	Re- sponse Time	Pkg. No. of Pins*
HA4900 HA4902 HA4905	2	10	Single or dual supply. Analog and logic supplies separated for easier interface and noise immunity	130ns	16