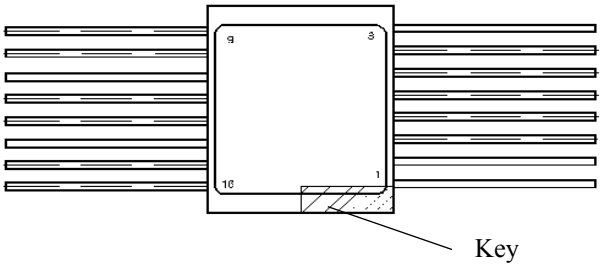
RD ALFA Microelectronics

Voltage Comparator aRD710/N5D

BOTTOM VIEW



Pin Connection Diagram

Pin	Designation
1	No connection
2	Common
3	Noninverting input
4	Inverting input
5	No connection
6	Supply (minus)
7	No connection
8	No connection
9	Output
10	No connection
11	Supply (plus)
12	No connection
13	Strobe
14	No connection

Electrical Characteristics

Parameter	Conditions	T_A	Min	Typ	Max	Units
Input Offset Voltage	U_O = 1.4 V	+25°C	-3	-0.5	3	mV
		-45°C	-5	-0.6	5	mV
		+85°C	-6	-0.3	6	mV
Positive Output Level	V_{S1} = 12 V, V_{S2} = -6 V, U_I = -50 mV, I_O = 3.0 mA	+25°C	2.6	3.5	-	V
		-45°C	2.4	3.4	-	V
		+85°C	2.4	3.4	-	V
Negative Output Level	V_{S1} = 12 V, V_{S2} = -6 V, U_I = 50 mV, I_O = -1.0 mA	+25°C	-0.35	-0.03	0.35	V
		-45°C	-0.35	-0.16	0.40	V
		+85°C	-0.35	-0.16	0.40	V
Input Bias Current	U_O = 1.4 V	+25°C	-	1	3	µA
		-45°C	-	1.6	10	µA
		+85°C	-	0.7	7	µA
Input Ofset Currents	U_O = 1.4 V	+25°C	-	0.05	1	µA
		-45°C	-	0/08	3	µA
		+85°C	-	0.03	3	µA
Positive Supply Current	U_I = 50 mV	+25°C	-	4.7	6	mA
		-45°C	-	4.9	8	mA
		+85°C	-	4	6	mA
Negative Supply Current	U_I = 50 mV	+25°C	-3.5	2.2	-	mA
		-45°C	-4.5	2.3	-	mA
		+85°C	-3.5	2	-	mA
Propagation delay	V_{S1} = 12 V, V_{S2} = -6 V, Overdrive 50 mV	+25 °C	-	35	40	ns
Voltage Gain	V_{S1} = 11.4 V, V_{S2} = -5.7 V, U_O = 1.4 V, ΔU_o = ± 0.5 V	+25°C	1500	3600	-	V/V
		-45°C	1000	2900	-	V/V
		+85°C	750	3500	-	V/V

Microcircuits are manufactured under the supervision of the Quality Department, thoroughly inspected, and verified to correspond with the specifications.