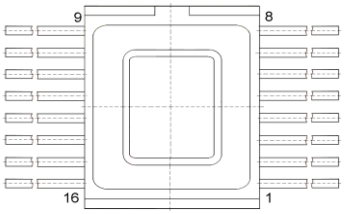
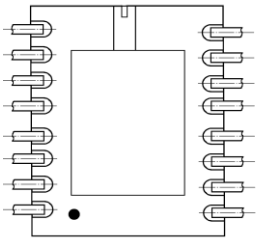
RD ALFA Microelectronics

Voltage Comparator αRD11351/T5D

TOP VIEW



BOTTOM VIEW



Pin Connection Diagram

Pin	Destination	Pin	Destination
1	Inverting input	8	Output
2	Noninverting input	9	Power U_{CC3} (5V)
4	Power $U_{CC}2$ (-6V)	12	Power U_{CC1} (12V)
6	Ground		

Electrical Characteristics

Parameter	Conditions	T_A	Min	Max	Units
Input Offset Voltage	Ucc1 =13,2 V; Ucc2 = -6,6 V; Ucc3 = 5,5 V; Uo = 1,4 V	+25°C	-	6	mV
		-45°C	-	20	mV
		+85°C	-	20	mV
Output low Voltage	U_{CC1} = 10,8 V; U_{CC2} = -5,4V; U_{CC3} = 5,5VB; Io_L = -1,6 mA; U_I= 20 mV.	+25°C	-	400	mV
		-45°C	-	400	mV
		+85°C	-	400	mV
Output high Voltage	U_{CC1} = 10,8 V; U_{CC2} = -5,4 V; U_{CC3} = 4,5V; Io_H = 0,1mA; Io = -1,6 mA, U_I = -20mV	+25°C	2,4	U_{CC3}	V
		-45°C	2,4	U_{CC3}	V
		+85°C	2,4	U_{CC3}	V
Supply Current Icc1	Ucc1 =13,2 V; Ucc2 = -6,6 V; Ucc3 = 5,5 V; U_1 = -20 mV.	+25°C	-	14	mA
		-45°C	-	15,5	mA
		+85°C	-	15,5	mA
Supply Current Icc2	Ucc1 =13,2 ; Ucc2 = -6,6 V; Ucc3 = 5,5 V; U =20mV	+25°C	-	8	mA
		-45°C	-	9	mA
		+85°C	-	9	mA
Input Bias Current	Ucc1 =13,2 V; Ucc2 = -6,6 V; Ucc3 = 5,5 V; Uo = 1,4 V	+25°C	-	20	mkA
		-45°C	-	50	mkA
		+85°C	-	120	mkA
Input Ofset Currents	Ucc1 =13,2 V; Ucc2 = -6,6 V; Ucc3 = 5,5 V; Uo = 1,4 V	+25°C	-	10	mkA
		-45°C	-	20	mkA
		+85°C	-	20	mkA
Voltage Gain	U_{CC1} = 10,8 V; U_{CC2} = -5,4 V; U_{CC3} = 4,5 V; U_0 = 1,4 V; ΔU0 = ± 0,5 V.	+25°C	2000	-	-
		-45°C	750	-	
		+85°C	1000	-	
Common Mode Rejection	U_{CC1} = 13,2 V; U_{CC2} = -6,6VB; U_{CC3} = 5,0 V; U_0 = 1,4 V; U_{1C} = ±4 V.	+25°C	60	-	dB
		-45°C	50	-	dB
		+85°C	65	-	dB
Propagation delay	U_{CC1} = 12,0 V; U_{CC2} = -6,0 V; U_{CC3} = 5,0 V; U_{REF} = 100 mV; R_L = 3 kΩ; U_0 = (0,9-1,9) V; U_G = -150 mV.	+25°C	-	80	ns

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