

# Digital Circuits

## RAY I and II Series TTL (Cont.)

Type <sup>1</sup> Number	Description	Fanout Function	TYPICAL CHARACTERISTICS			Available Packages			
			Tpd (ns) or Toggle Rate (Min)	Avg. Pwr. Function (mW) 50% Duty	DC Noise Margin (V)	14 Pin			
						3	5	8	16
RG260	Single 8 input NAND gate	11	8	22	+1.0, -1.5	X	X	X	X
RG261	Single 8 input NAND gate	6	8	22	+1.0, -1.5	X	X	X	X
RG262	Single 8 input NAND gate	9	8	22	+1.0, -1.5	X	X	X	X
RG263	Single 8 input NAND gate	5	8	22	+1.0, -1.5	X	X	X	X
RG270	2-wide, 4 input AOI expander	—	1	7/gate	+1.0, -1.5	X	X	X	X
RG271	2-wide, 4 input AOI expander	—	1	7/gate	+1.0, -1.5	X	X	X	X
RG272	2-wide, 4 input AOI expander	—	1	7/gate	+1.0, -1.5	X	X	X	X
RG273	2-wide, 4 input AOI expander	—	1	7/gate	+1.0, -1.5	X	X	X	X
RG280	Expandable dual 4 input AND gate	15	11	38/gate	+1.1, -1.5	X	X	X	X
RG281	Expandable dual 4 input AND gate	7	11	38/gate	+1.1, -1.5	X	X	X	X
RG282	Expandable dual 4 input AND gate	12	11	38/gate	+1.1, -1.5	X	X	X	X
RG283	Expandable dual 4 input AND gate	6	11	38/gate	+1.1, -1.5	X	X	X	X
RG290	Dual 2 and 3 input AND/OR gate exp.	—	7	15/gate	+1.1, -1.5	X	X	X	X
RG291	Dual 2 and 3 input AND/OR gate exp.	—	7	15/gate	+1.1, -1.5	X	X	X	X
RG292	Dual 2 and 3 input AND/OR gate exp.	—	7	15/gate	+1.1, -1.5	X	X	X	X
RG293	Dual 2 and 3 input AND/OR gate exp.	—	7	15/gate	+1.1, -1.5	X	X	X	X
RG300	Expandable 3-wide, 3 input AOI gate	11	7	35	+1.0, -1.5	X	X	X	X
RG301	Expandable 3-wide, 3 input AOI gate	6	7	35	+1.0, -1.5	X	X	X	X
RG302	Expandable 3-wide, 3 input AOI gate	9	7	35	+1.0, -1.5	X	X	X	X
RG303	Expandable 3-wide, 3 input AOI gate	5	7	35	+1.0, -1.5	X	X	X	X
RG310	Dual 2-wide, 2 input AOI gate, one side exp.	11	7	30/gate	+1.0, -1.5	X	X	X	X
RG311	Dual 2-wide, 2 input AOI gate, one side exp.	6	7	30/gate	+1.0, -1.5	X	X	X	X
RG312	Dual 2-wide, 2 input AOI gate, one side exp.	9	7	30/gate	+1.0, -1.5	X	X	X	X
RG313	Dual 2-wide, 2 input AOI gate, one side exp.	5	7	30/gate	+1.0, -1.5	X	X	X	X
RG320	Triple 3 input NAND gate	11	6	22/gate	+1.0, -1.5	X	X	X	X
RG321	Triple 3 input NAND gate	6	6	22/gate	+1.0, -1.5	X	X	X	X
RG322	Triple 3 input NAND gate	9	6	22/gate	+1.0, -1.5	X	X	X	X
RG323	Triple 3 input NAND gate	5	6	22/gate	+1.0, -1.5	X	X	X	X
RG370	Hex inverter	15	10	15/inverter	+1.1, -1.5	X	X	X	X
RG371	Hex inverter	7	10	15/inverter	+1.1, -1.5	X	X	X	X
RG372	Hex inverter	12	10	15/inverter	+1.1, -1.5	X	X	X	X
RG373	Hex inverter	6	10	15/inverter	+1.1, -1.5	X	X	X	X
RG380	Hex inverter	11	6	22/inverter	+1.0, -1.5	X	X	X	X
RG381	Hex inverter	6	6	22/inverter	+1.0, -1.5	X	X	X	X
RG382	Hex inverter	9	6	22/inverter	+1.0, -1.5	X	X	X	X
RG383	Hex inverter	5	6	22/inverter	+1.0, -1.5	X	X	X	X
RG7510	Quad 2 input line driver	30	15	30/gate	+1.1, -1.5	X	X	X	X
RG7511	Quad 2 input line driver	15	15	30/gate	+1.1, -1.5	X	X	X	X
RG7512	Quad 2 input line driver	24	15	30/gate	+1.1, -1.5	X	X	X	X
RG7513	Quad 2 input line driver	12	15	30/gate	+1.1, -1.5	X	X	X	X
RG7520	Quad 2 input lamp driver	40 mA	15	30/gate	+1.1, -1.5	X	X	X	X
RG7521	Quad 2 input lamp driver	20 mA	15	30/gate	+1.1, -1.5	X	X	X	X
RG7522	Quad 2 input lamp driver	40 mA	15	30/gate	+1.1, -1.5	X	X	X	X
RG7523	Quad 2 input lamp driver	20 mA	15	30/gate	+1.1, -1.5	X	X	X	X

1. Operating temperature range, final digits 0 or 1: -55°C to +125°C; final digits 2 or 3: 0°C to +70°C