

**SIGNETICS INTEGRATED CIRCUITS**  
**Utilogic II 300 Series**

<b>Rating</b>	<b>Value</b>	<b>Unit</b>
V <sub>CC</sub>	+5.5	V
Current Rating - Inputs	±10	mA
Current Rating - Output	±50	mA
Storage Temperature - T <sub>stg</sub>	-65 to +150	°C
Operating Temperature - T <sub>A</sub>	0 to +75	°C

  

<b>Function</b>	<b>Type/Pkg</b>	<b>Fan-Out to Source Loads</b>	<b>Propagation Delay T<sub>pd</sub>ns</b>
Dual 3-Input Expander for OR and NOR Gates	300/C,H,I	—	5
Quad 2-Input Diode Expander for NAND Gates	301/C	—	—
Quad 2-Input AND Gate	302/C	16	15
Dual 4-Input Expandable AND Gate	304/C	16	15
Single 6-Input AND Gate	305/C,H,I	10	15
Dual 3-Input AND Gate	306/C,H,I	10	15
Single 7-Input NOR Gate	314/C,H,I	11	30
Dual 3-Input NOR Gate	315/H,I	12	30
Dual 2-Input Expandable NOR Gate	316/H,I	12	30
Dual 4-Input Expandable NOR Gate	317/C	11	20
J-K Binary Element	320/H,I	12	65
Dual J-K Binary	321/C	8	25
Dual J-K Binary	322/E	8	25
Dual D Binary	328/C	6	25
Dual 2-Input Expandable OR Gate	331/H,I	12	20
Dual 3-Input OR Gate	332/H,I	12	20
Dual 3-Input Expandable OR Gate	333/C	11	35
Dual 4-Input Expandable OR Gate	334/C	11	35
Dual 4-Input Expandable NAND Gate	337/C	6	45
Dual 3-Input Expandable NAND Buffer Driver	352/C	—	—

<b>Function</b>	<b>Type/Pkg</b>	<b>Fan-Out to Source Loads</b>	<b>Propagation Delay T<sub>pd</sub>ns</b>
Dual 4-Input Expandable NAND Buffer Driver	356/C	11	55
Quad 2-Input NAND Power Driver	357/C	11	50
Quad 2-Input NAND Power Driver (O. C.)	358/C	11	50
Monostable Multivibrator	362/C	2	55
Dual Zero Crossing Detector	363/C	2	85
Triple 3-Input NOR Gate	370/C	11	20
Triple 3-Input OR Gate	374/C	11	35
Triple 2-Input Expandable OR Gate	375/C	11	35
Triple 3-Input NAND Gate	377/C	6	45
Quad 2-Input NOR Gate	380/C	11	20
Quad 2-Input NOR Gate (O. C.)	381/C	—	25
Quad 2-Input OR Gate	384/C	11	35
Quad 2-Input NAND Gate	387/C	6	45
Hex Inverter (O. C.)	391/C	—	25
4-Bit Shift Register	3271/E	—	60
BCD Decade Counter	3280/C	—	50
4-Bit Binary Counter	3281/C	—	50