



MOTOROLA INTEGRATED CIRCUITS

9300 Series

8300 Series

These TTL integrated circuits are designed for digital applications in the medium to high-speed range. They provide significant reduction in package count and increased logic per function over devices in the basic TTL and DTL families.

FUNCTIONS AND CHARACTERISTICS

MAXIMUM RATINGS

Rating	Value	Unit
Supply Voltage - V_{CC}	+7.0	Vdc
Input Voltage - V_{in}	+5.5	Vdc
Output Voltage - V_{out}	+5.5	Vdc
Operating Temperature Range	-55 to +125	°C
Storage Temperature Range	-65 to +150	°C

PACKAGING AVAILABLE

(See page 88):

C - 14-LEAD DUAL INLINE A - 14-LEAD FLAT PACK
 E - 16-LEAD DUAL INLINE F - 16-LEAD FLAT PACK
 J - 24-LEAD DUAL INLINE K - 24-LEAD FLAT PACK

FUNCTION	TYPE/PKG	LOADING FACTOR EACH OUTPUT	POWER DISSIPATION mW typ/pkg
Universal 4-Bit Shift Register	9300/E,F	6	300
BCD-to-Decimal Decoder	9301/E,F	10	125
Dual Full Adder	9304/E,F	—	110
Presetable Decade Up/Down Counter	9306/J,K	—	—
7-Segment Decoder	9307/E,F	—	—
Dual 4-Bit Latch	9308/J,K	9	325
Dual 4-Channel Data Selector	9309/E,F	10	150
Presetable Decade Counter	9310/E,F	6	300
One of Sixteen Decoder	9311/J,K	10	175
8-Channel Data Selector	9312/E,F	9	135
4-Bit Latch	9314/E,F	—	—
4-Bit Binary Counter	9316/E,F	6	300
7-Segment Decoder/Driver	9317/E,F	—	—
8-Input Priority Encoder	9318/E,F	—	—
Quad 2-Input Multiplexer	9322/E,F	—	—
5-Bit Comparator	9324/E,F	—	—
Dual 8-Bit Shift Register	9328/E,F	6	250
One Shot Multivibrator	9601/C,A	6	75
Dual One Shot Multivibrator	9602/E,F	—	—

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