



MOTOROLA INTEGRATED CIRCUITS

8200 Series
7200 Series

The 8200 Series circuits are TTL complex functions, designed for digital applications in the medium to high-speed range. These devices provide significant reduction in package count and increased logic per function.

MAXIMUM RATINGS

Rating	Value	Unit
Supply Voltage - V_{CC}	5.0 to 6.0	V
Input Voltage - V_{in}	5.5	V
Output Voltage - V_{out}	7.0	V
Storage Temperature - T_{stg}	-65 to +175	°C
Operating Temperature - T_A	-55 to +125	°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

FUNCTIONS AND CHARACTERISTICS

FUNCTION	TYPE/PKG	t_{on}/t_{off} (typ)	TRANSFER RATE min/ MHz	POWER DISSIPATION max
Dual 5-Bit Buffer Register	8200/J,K	30/25	15	580
Dual 5-Bit Buffer Register W/D Inputs	8201/J,K	30/25	15	580
10-Bit Buffer Register	8202/J,K	30/25	15	580
10-Bit Buffer Register W/D Inputs	8203/J,K	30/25	15	580
2-Input, 4-Bit Digital Multiplexer	8233/E,F	16/27	—	252
2-Input, 4-Bit Digital Multiplexer	8234/E,F	16/27	—	210
2-Input, 4-Bit Digital Multiplexer	8235/E,F	16/27	—	310
Quad Exclusive OR Gate	8241/C,A	17/11	—	300
Quad Exclusive NOR Gate	8242/C,A	17/11	—	250
Binary-to-Octal Decoder	8250/C,A	20/20	—	125
BCD-to-Decimal Decoder	8251/E,F	20/20	—	135
Arithmetic Logic Unit	8260/J,K	14	—	600
Fast Carry Extender	8261/C,A	16	—	158
2-Input, 4-Bit Digital Multiplexer	8266/E,F	20/27	—	275
2-Input, 4-Bit Digital Multiplexer	8267/E,F	20/27	—	275

TTL FUNCTIONS AND CHARACTERISTICS (continued)

FUNCTION	TYPE/PKG	t_{set}/t_{clr} (typ)	TRANSFER RATE min/ MHz	POWER DISSIPATION max
4-Bit Shift Register	8270/C,A	25	15	247
4-Bit Shift Register	8271/E,F	25	15	247
Presettable Decade Counter	8280/C,A	15	—	236
Presettable Binary Counter	8281/C,A	15	—	236
Binary Up/Down Counter	8284/C,A	—	—	420
Decade Up/Down Counter	8285/C,A	32/25	20	420
Divide-by-Twelve Counter	8288/C,A	20/25	20	236
Presettable High-Speed Decade Counter	8290/C,A	31/33	40	255
Presettable High-Speed Binary Counter	8291/C,A	31/33	40	255

PACKAGING INFORMATION

Per MIL-M-38510 Package Case Outline

All of Lansdale's products come in one of the following configurations. On each of the product pages in the catalog, there is a package box. The letters in that box correspond to one of the letters below. This is a guide to how the product is available.

LETTER	DESIGNATION	DESCRIPTION
A	F-1	14-LEAD FP (1/4" X 1/4")
B	F-3	14-LEAD FP (3/16" X 1/4")
C*	D-1	14-LEAD DIP (1/4" X 3/4")
D*	F-2	14-LEAD FP (1/4" X 3/8")
E*	D-2	16-LEAD DIP (1/4" X 7/8")
F*	F-5	16-LEAD FP (1/4" X 3/8")
G	A-1	8-LEAD CAN
H*	F-4	10-LEAD FP (1/4" X 1/4")
I*	A-2	10-LEAD CAN
J*	D-3	24-LEAD DIP (1/2" X 1 1/4")
K*	F-6	24-LEAD FP (3/8" X 5/8")
L	D-9	24-LEAD DIP (1/4" X 1 1/4")
M	A-3	12-LEAD CAN
P	D-4	8-LEAD DIP (1/4" X 3/8")
Q	D-5	40-LEAD DIP (9/16" X 2 1/16")
R	D-8	20-LEAD DIP (1/4" X 1 1/16")
S	F-9	20-LEAD FP (1/4" X 1/2")
V	D-6	18-LEAD DIP (1/4" X 15/16")
W	D-7	22-LEAD DIP (3/8" X 1 1/8")

FP (flat pack)
DIP (dual inline)
CAN (metal can)

* **LANSDALE STANDARD PACKAGES**

CONTACT FACTORY FOR OTHER PACKAGE QUOTES