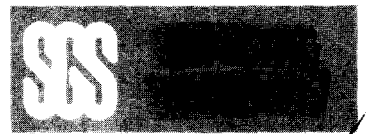


HS-C²MOS™ INTEGRATED CIRCUITS

048480



PRODUCT PREVIEW

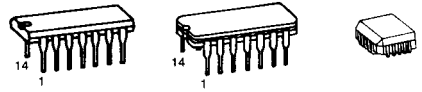
HEX BUFFER

DESCRIPTION

The M54/74HCT07 is a high speed CMOS HEX BUFFER fabricated in silicon gate C²MOS technology.

It has the same high speed performance of LSTTL combined with true CMOS low power consumption. All inputs are equipped with protection circuits against static discharge or transient excess voltage. This integrated circuit has totally compatible, input and output characteristic, with standard 54/74 LSTTL logic families.

M54HCT/74HCT devices are designed to directly interface HSC²MOS systems with TTL and NMOS components. These devices are also plug in replacements for LSTTL devices giving a reduction of power consumption.



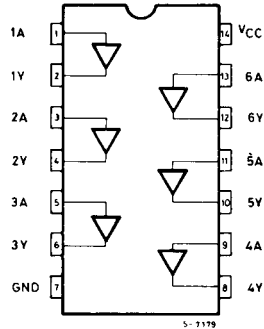
B1 Plastic Package **F1** Ceramic Package **C1** Chip Carrier

ORDERING NUMBERS: M54HCT07 F1
M74HCT07 B1
M74HCT07 F1
M74HCT07 C1

FEATURES

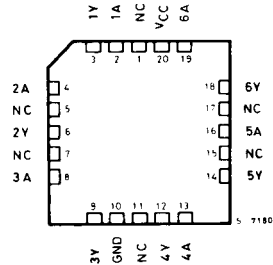
- Low Power Dissipation
 $I_{CC} = 1 \mu A$ (Max.) at $T_A = 25^\circ C$
- High Noise Immunity
 $V_{NIH} = V_{NIL} = 28\% V_{CC}$ (Min.)
- Output Drive Capability
15 LSTTL Loads
- Symmetrical Output Impedance
 $|I_{OH}| = I_{OL} = 6 \text{ mA}$ (Min.)
- Balanced Propagation Delays
 $t_{PLH} = t_{PHL}$
- Pin and Function compatible with 54/74LS07

PIN CONNECTIONS (top view)



Dual in line

CHIP CARRIER



NC = No Internal Connection

INPUT AND OUTPUT EQUIVALENT CIRCUIT

