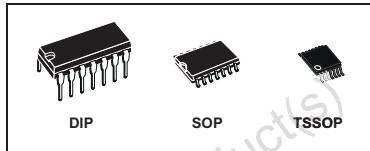




# M74HC266

## QUAD EXCLUSIVE NOR GATE WITH OPEN DRAIN

- HIGH SPEED:  
 $t_{PD} = 10\text{ns}$  (TYP.) at  $V_{CC} = 6\text{V}$
- LOW POWER DISSIPATION:  
 $I_{CC} = 1\mu\text{A}$ (MAX.) at  $T_A=25^\circ\text{C}$
- HIGH NOISE IMMUNITY:  
 $V_{NIH} = V_{NIL} = 28\%$   $V_{CC}$  (MIN.)
- WIDE OPERATING VOLTAGE RANGE:  
 $V_{CC}$  (OPR) = 2V to 6V
- PIN AND FUNCTION COMPATIBLE WITH 74 SERIES 266



### ORDER CODES

PACKAGE	TUBE	T & R
DIP	M74HC266B1R	
SOP	M74HC266M1R	M74HC266RM13TR
TSSOP		M74HC266TTR

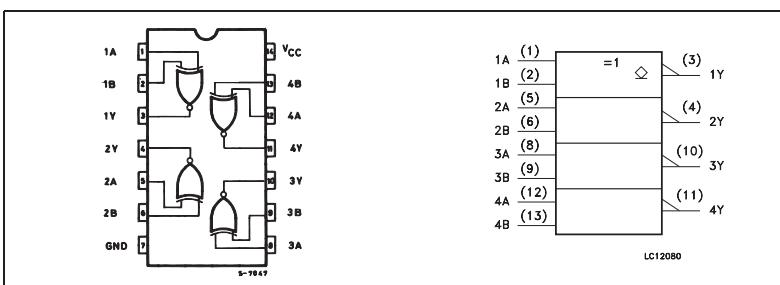
All inputs are equipped with protection circuits against static discharge and transient excess voltage.

### DESCRIPTION

The M74HC266 is an high speed CMOS QUAD EXCLUSIVE NOR GATE fabricated with silicon gate C<sup>2</sup>MOS technology.

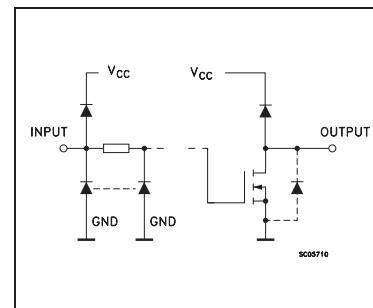
The M74HC266 has a high performance N-channel MOS transistor (OPEN DRAIN output). Input and Output ensure high noise immunity and stable outputs.

### PIN CONNECTION AND IEC LOGIC SYMBOLS



## M74HC266

### INPUT AND OUTPUT EQUIVALENT CIRCUIT



### PIN DESCRIPTION

PIN No	SYMBOL	NAME AND FUNCTION
1, 5, 8, 12	1A to 4A	Data Inputs
2, 6, 9, 13	1B to 4B	Data Inputs
3, 4, 10, 11	1Y to 4Y	Data Outputs
7	GND	Ground (0V)
14	$V_{CC}$	Positive Supply Voltage

### TRUTH TABLE

A	B	Y
L	L	Z
L	H	L
H	L	L
H	H	Z

Z : High Impedance

### ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
$V_{CC}$	Supply Voltage	-0.5 to +7	V
$V_I$	DC Input Voltage	-0.5 to $V_{CC} + 0.5$	V
$V_O$	DC Output Voltage	-0.5 to $V_{CC} + 0.5$	V
$I_{IK}$	DC Input Diode Current	$\pm 20$	mA
$I_{OK}$	DC Output Diode Current	$\pm 20$	mA
$I_O$	DC Output Current	$\pm 25$	mA
$I_{CC}$ or $I_{GND}$	DC $V_{CC}$ or Ground Current	$\pm 50$	mA
$P_D$	Power Dissipation	500(*)	mW
$T_{stg}$	Storage Temperature	-65 to +150	°C
$T_L$	Lead Temperature (10 sec)	300	°C

Absolute Maximum Ratings are those values beyond which damage to the device may occur. Functional operation under these conditions is not implied  
(\*) 500mW at 65 °C; derate to 300mW by 10mW/°C from 65°C to 85°C

### RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Value	Unit
$V_{CC}$	Supply Voltage	2 to 6	V
$V_I$	Input Voltage	0 to $V_{CC}$	V
$V_O$	Output Voltage	0 to $V_{CC}$	V
$T_{op}$	Operating Temperature	-55 to 125	°C
$t_r, t_f$	Input Rise and Fall Time	$V_{CC} = 2.0\text{V}$	0 to 1000 ns
		$V_{CC} = 4.5\text{V}$	0 to 500 ns
		$V_{CC} = 6.0\text{V}$	0 to 400 ns