MCH1002P

DUAL POWER DRIVER

Advance Information

DUAL POWER DRIVER

. . . designed for magnetic relay and lamp-driving applications.

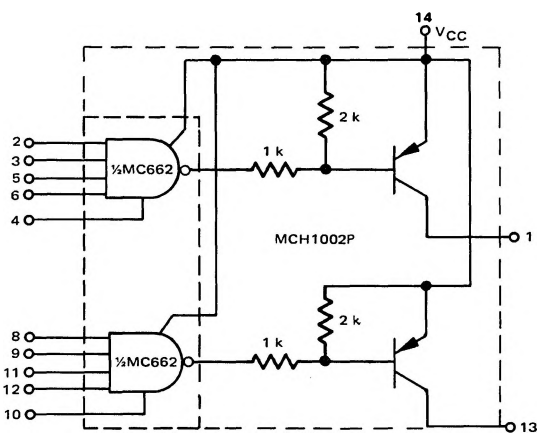
- MHTL Dual 4-Input Line Driver (MC662) for the Input Logic
- Output Current $-I_{OL}$ = 0.5 Adc (Max)
- Output Voltage – BV_{CEO} = 40 Vdc

DUAL POWER DRIVER
HYBRID MICROCIRCUIT

PLASTIC PACKAGE
CASE 625

MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Rating	Symbol	Value	Unit
Power Supply Voltage	V_{CC}	18	Vdc
Input Voltage	V_{in}	-1.0/+18	Vdc
Output Current	I_{OL}	0.5	Adc
Output Voltage	BV_{CEO}	40	Vdc
Input Current	I_{in}	30	mAdc
Power Dissipation Derate above T_A = 25°C	P_D	1.0 10	Watts mW/°C
Operating Temperature Range	T_A	-30 to +75	°C
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-55 to +125	°C



See Packaging Information Section for outline dimensions.

ELECTRICAL CHARACTERISTICS (Each Driver, T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Input					
Reverse Current (Each Input) (V_R = 16 Vdc, V_{CCL} = 14 Vdc)	I_R	–	–	2.0	μAdc
Forward Current (Each Input) (V_F = 1.5 V, V_{CCH} = 16 Vdc)	I_F	–	–	1.2	mAdc
Power Drain Current (Total Device) (I_L = 0 mAdc, V_{CCH} = 16 Vdc, V_{IL} = 6.5 V)	I_{CCL}	–	2.0	5.0	mAdc
Power Drain Current (Total Device) (I_L = 0 mAdc, V_{IH} = 8.5 V, V_{CCH} = 16 Vdc)	I_{CCH}	–	40	55	mAdc
Output					
Output Voltage (V_{IH} = 8.5 V, V_{CC} = 15 V, I_L = 500 mAdc)	V_{OH}	14.3	–	–	Vdc
Output Current (V_{IL} = 6.5 V, V_{CC} = 15 V)	I_L	–	–	1.0	μAdc
Collector-Emitter Breakdown Voltage of the Output Transistor (I_C = 10 mAdc)	BV_{CEO}	40	–	–	Vdc
Switching Times (See Note 1)					
Turn-On-Time (I_L = 500 mA, V_{IH} = 15 Vdc, V_{CC} = 15 Vdc)	t_{on}	–	115	–	ns
Turn-Off-Time (V_{IL} = 0, V_{CC} = 15 Vdc)	t_{off}	–	260	–	ns

Note 1: Measured at 50% points.

DEFINITIONS

I_{CCH}	V_{CC} current drain when all inputs are high
I_{CCL}	V_{CC} current drain when all inputs are low
I_F	Forward current of input diodes for unit input load
I_L	Test current flowing into output pin when input is low
I_R	Reverse current of input diodes with V_R applied
t_{off}	Turn-off delay time
t_{on}	Turn-on delay time
V_{CC}	Device power supply voltage
V_F	Input voltage when measuring I_F
V_{IH}	Threshold voltage for high input voltage state
V_{IL}	Threshold voltage for low input voltage state
V_{OH}	Output high voltage state with I_{OH} flowing out of pin
V_R	Reverse voltage for input diode leakage test
V_{CCL}	Low power supply voltage
V_{CCH}	High power supply voltage