

MSL918

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8-BIT PARALLEL-IN PARALLEL-OUT**GENERAL DESCRIPTION**

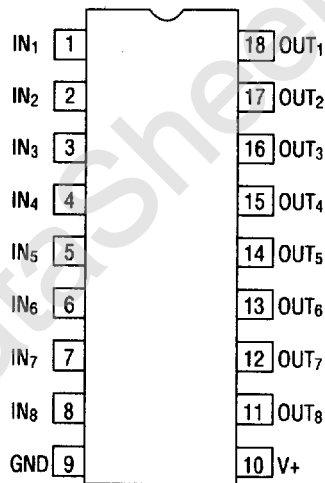
The MSL918 is a high voltage vacuum fluorescent display tube driver, which uses positive voltage and contains eight circuits. Each output does not contain a pull-down resistor, hence it should be connected to an external resistor (about 150k Ω)

Input may be driven directly by the TTL or CMOS. The vacuum fluorescent display tube driver may also be used as a high voltage and current driver.

- 18-pin Plastic DIP (DIP 18-P-300)

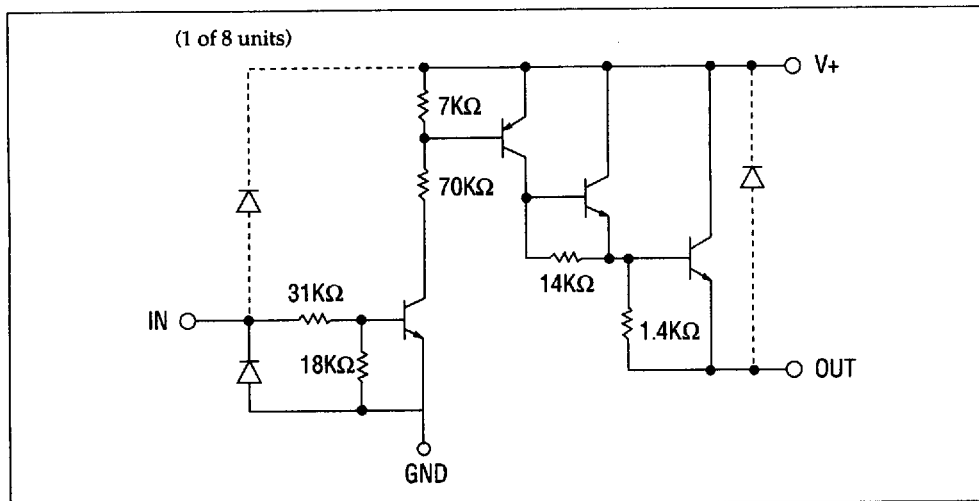
PIN CONFIGURATION

(Top View) 18-pin Plastic DIP



CIRCUIT CONFIGURATION

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ELECTRICAL CHARACTERISTICS

• Absolute Maximum Ratings

Parameter	Symbol	Condition	Limits	Unit
Supply voltage	V+	Ta=25°C	-0.3 ~ +35	V
Input voltage	V _I	Ta=25°C	-0.5 ~ +10	V
Output voltage	V _O	Ta=25°C	-0.3 ~ V+	V
Output current	I _O	Ta=25°C, only one circuit ON	-45	mA
Storage temperature	T _{stg}	-	-55 ~ +150	°C

• Recommended Operating Conditions

Parameter	Symbol	Condition	Limits	Unit
Supply voltage	V+	-	+15 ~ +30	V
Input voltage	V _I	-	0 ~ +7	V
Output current	I _O	Only one circuit ON*	0 ~ -40	mA
		Per circuit when all circuits are ON*	0 ~ -11	mA
		Total output current*	0 ~ -90	mA
Operating temperature	T _{op}	-	-30 ~ +75	°C

* Duty: 50% max.

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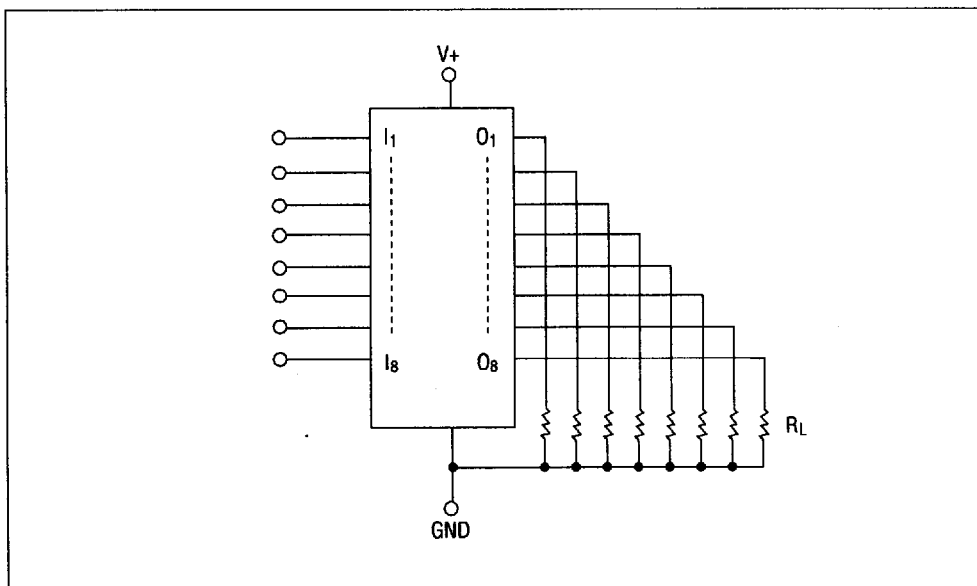
• DC Characteristics

(Ta = -30 ~ +75°C, TYP: Ta = 25°C)

Parameter	Symbol	Condition				Specification			Unit
		V+ (V)	Vi (V)	Io (mA)	RL (Ω)	MIN	TYP	MAX	
High input voltage	V _{IH}	+30	-	-	-	2.5	-	-	V
Low input voltage	V _{IL}	+30	-	-	-	-	-	1.0	V
Low input current	I _{IL}	+30	1.0	-	-	-	-20	-80	μA
High input current	I _{IH1}	+30	2.5	-	-	-	-	0.15	mA
	I _{IH2}	+30	7	-	-	-	-	0.5	mA
High output voltage	V _{OH}	+30	2.5	-40	-	27	-	-	V
Low output voltage	V _{OL}	+30	1.0	0	150K	-	-	3.0	V
Supply current	I _{CC OFF}	+30	ALL INPUTS 1.0	-	150K	-	-	0.4	mA
	I _{CC ON}	+30	ALL INPUTS 2.5	-	150K	-	9.5	14	mA

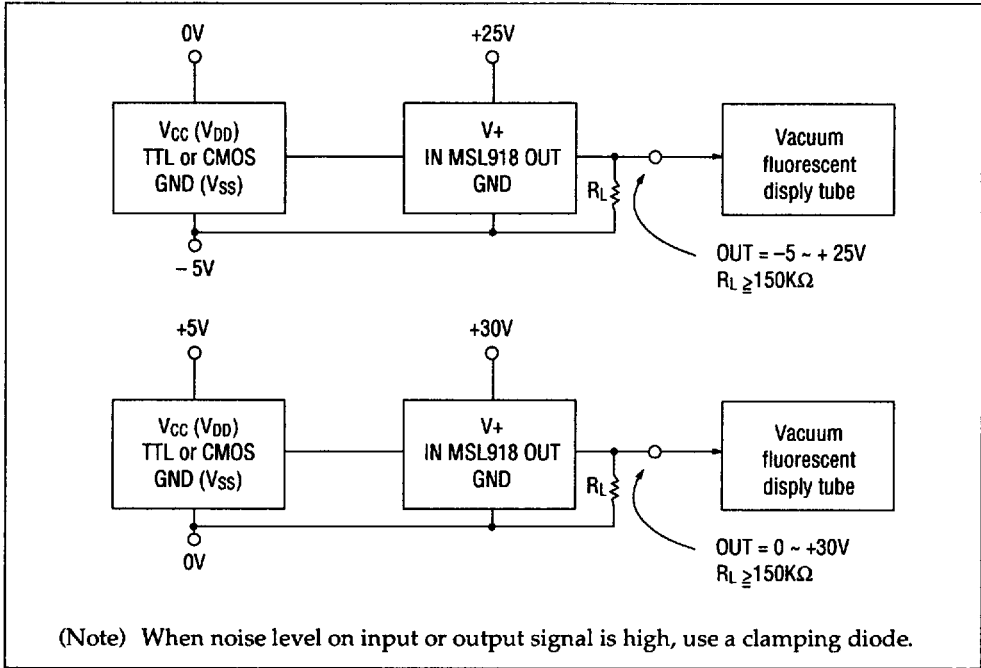
*1 RL connection method

RL CONNECTION METHOD



APPLICATION NOTE

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