

# Display Drivers

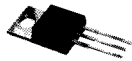
1. Op temp  
2. Pra Mat 2  
3. V Sept

Part Number	Driver Type	Display Type	Input Level Shift	OUTPUT CAPABILITY				Max. Oper. Power Diss. mW	D.I.P. TYPE
				Segments or Digit Circuits	Max. Output Current mA	Max. Volt. Compliance (constant current output)	Max. Pull up Voltage B+ to output		
DI 210	Cathode	G	—	8	0-3.5	150 V	—	800	18
DI 220	Cathode	G	—	8	0-3.5	225 V	—	800	18
DI 230	Cathode	G	—	8	0-3.5	80 V	—	800	18
DI 232*	Cathode	G	—	9	0-3.5	80 V	—	800	22
DI 240	Cathode	G	—	8	0-3.5	125 V	—	800	18
DI 242*	Cathode	G	—	9	0-3.5	125 V	—	800	22
DI 300	Level Shifted Cathode	G	200 V	8	0-2.5	100 V	—	800	18
DI 302	Level Shifted Cathode	G	100 V	8	0-2.5	100 V	—	800	18
DI 500B	Level Shifted Anode	G	200 V	4	0-30	—	90	600	14
DI 502B	Level Shifted Anode	G	125 V	4	0-30	—	90	600	14
DI 503B	Level Shifted Digit	V	80 V	4	0-20	—	80	600	14
DI 504B	Level Shifted Digit	V	50 V	4	0-20	—	50	600	14
DI 505B	Level Shifted Anode	G	200 V	6	0-30	—	90	600	16
DI 507B	Level Shifted Anode	G	125 V	6	0-30	—	90	600	16
DI 508B	Level Shifted Digit	V	80 V	6	0-20	—	80	600	16
DI 509B	Level Shifted Digit	V	50 V	6	0-20	—	50	600	16
DI 510B	Level Shifted Anode	G	200 V	8	0-30	—	90	800	18
DI 512B	Level Shifted Anode	G	125 V	8	0-30	—	90	800	18
DI 513B	Level Shifted Seg. & Dig.	V	80 V	8	0-20	—	80	800	18
DI 514B	Level Shifted Seg. & Dig.	V	50 V	8	0-20	—	50	800	18
DI 603A	Anode	G	—	6	0-10	—	125	600	14
DI 803A	Anode	G	—	8	0-10	—	125	800	18
DI 5140	Plasma	G	—	5	0-5	140 V	—	600	14
DI 5180	Plasma	G	—	5	0-5	180 V	—	600	14
DI 5240	Plasma	G	—	5	0-5	240 V	—	600	14
DI 5280	Plasma	G	—	5	0-5	280 V	—	600	14

G—Gas Dischg.  
V—Vacuum Fluorescent  
All drivers are TTL or MOS compatible.

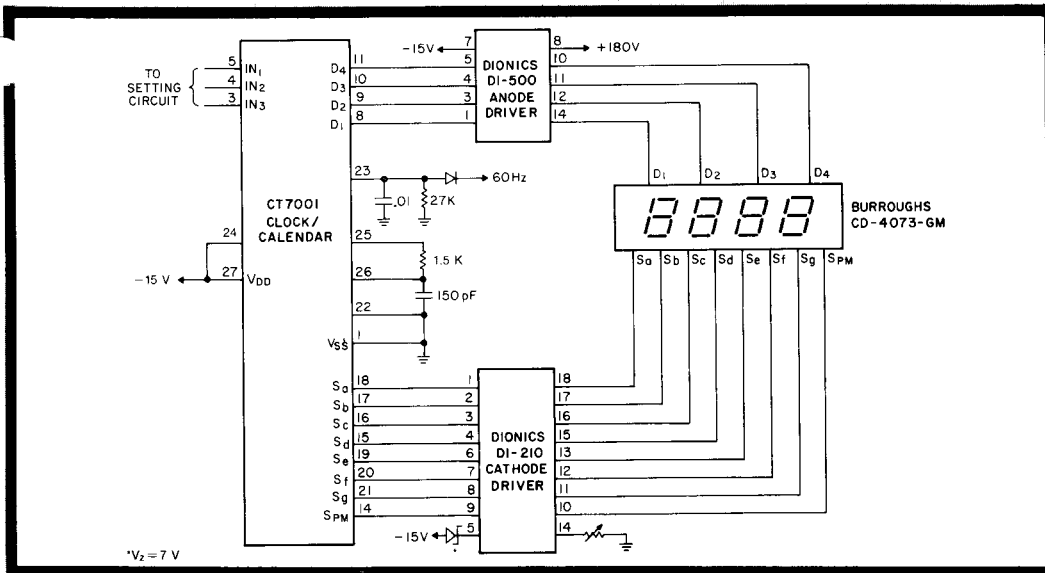
\*Uniform brightness achievable for segment groups of different length using individual current programming leg for each group. 2 drivers provide uniformity among 4 groups of segments.

## VOLTAGE REGULATOR

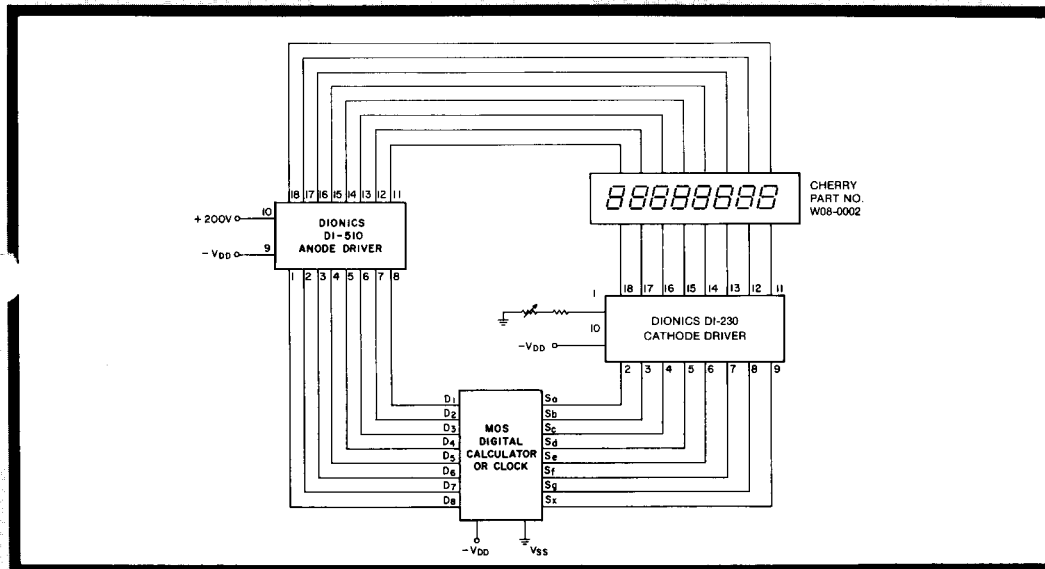
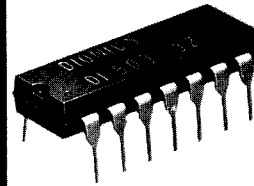


	Output Voltage V <sub>o</sub>	Output Current I <sub>o</sub>	Input Voltage Range	Line Regulation ΔV <sub>o</sub>	Load Regulation
DI 900	180 ±5%	15 mA	200-250	1.7% max	1% max
DI 905	180 ±5%	40 mA	200-250	1.7% max	1% max

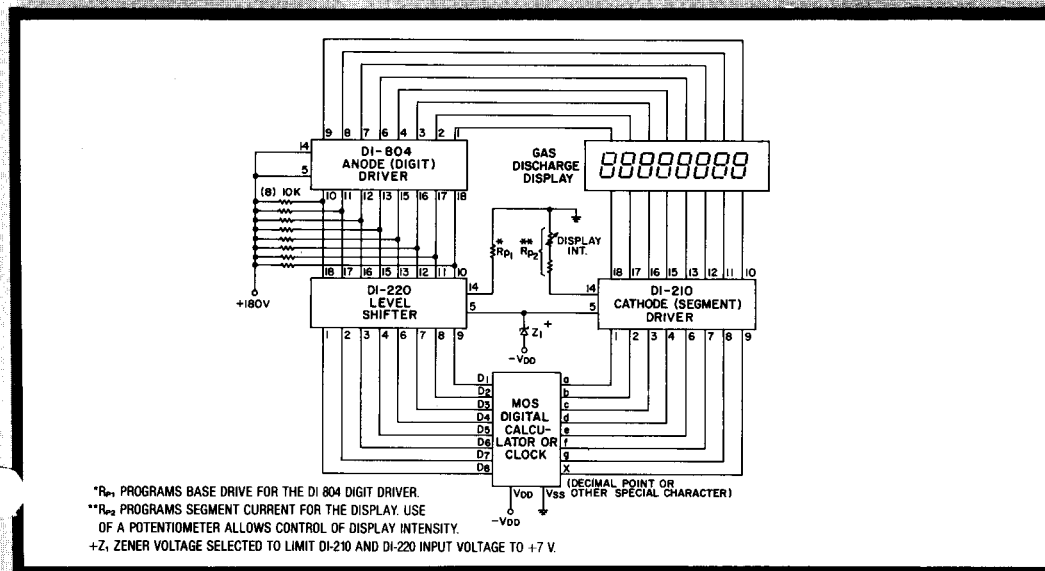
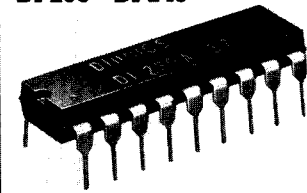
# Typical Applications



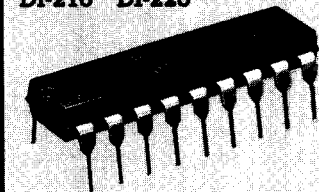
**TWO PACKAGE  
SINGLE ENDED SUPPLY INTERFACE  
DI-500B DI-505B DI-510B**



**TWO PACKAGE  
SINGLE ENDED SUPPLY INTERFACE  
DI-230 DI-240**



**THREE PACKAGE  
SINGLE ENDED SUPPLY INTERFACE  
DI-210 DI-220**



\*R<sub>1</sub> PROGRAMS BASE DRIVE FOR THE DI 804 DIGIT DRIVER.

\*\*R<sub>2</sub> PROGRAMS SEGMENT CURRENT FOR THE DISPLAY. USE OF A POTENTIOMETER ALLOWS CONTROL OF DISPLAY INTENSITY.

+Z, ZENER VOLTAGE SELECTED TO LIMIT DI-210 AND DI-220 INPUT VOLTAGE TO +7V.