

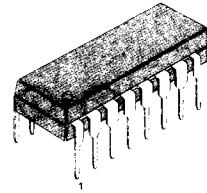
## 7-DOT LED LEVEL METER DRIVER

The KA2288 is a monolithic integrated circuit consisting of 7-dot LED level meter drivers. The KA2288 employs a low noise comparator which provides 10dB lower noise in the LW, MW band than the previously mentioned LED drivers.

## FEATURES

- LED current can be set by an external resistor
- Internal detection amplifier
- Internal voltage regulator
- Constant current output
- Fitted with a signal detect output pin
- VU meter scale

16 DIP



## BLOCK DIAGRAM

## ORDERING INFORMATION

Device	Package	Operating Temperature
KA2288	16 DIP	-20°C ~ +70°C

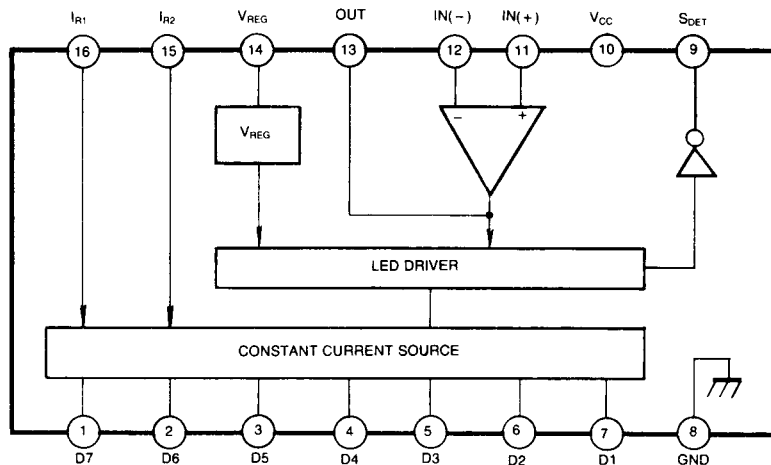


Fig. 1

## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	18	V
Amp Input Voltage	V <sub>I</sub>	0 ~ V <sub>CC</sub>	V
D Terminal Output Current	I <sub>D</sub>	30	mA
D Terminal Output Voltage	V <sub>D</sub>	V <sub>CC</sub>	V
Power Dissipation	P <sub>D</sub>	650	mW
Operating Temperature	T <sub>OPR</sub>	-20 ~ +70	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +125	°C

## ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	I <sub>CCO</sub>	R <sub>1</sub> = 4.7K, R <sub>2</sub> = ∞		8	12	mA
Input Bias Current	I <sub>BIAS</sub>			-200	-800	nA
Input Offset Voltage	V <sub>IO</sub>			2	10	mV
Amp Gain	G <sub>V</sub>	Open loop	50	70		dB
Reference Voltage	V <sub>REF</sub>	V <sub>CC</sub> = 6.2 ~ 16V, R <sub>L</sub> = 10K	2.4	2.6	2.9	V
Signal Detection Output High Level	V <sub>OH(DET)</sub>	R <sub>L</sub> = 10K	10	10.3	V	
Output Current 1	I <sub>O1</sub>	R <sub>1</sub> = 10K, R <sub>2</sub> = ∞	4.2	7.1	10.0	mA
Output Current 2*	I <sub>O2</sub>	R <sub>1</sub> = 10K, R <sub>2</sub> = 22K	6.3	10.6	15.0	mA
Output Leakage Current	I <sub>LEK</sub>	R <sub>1</sub> = 4.7K, R <sub>2</sub> = ∞			20	μA
Comparator On Level	V <sub>CL(ON) 1</sub>	V <sub>CC</sub> = 6.2V ~ 16V	-22	-20	-18	dB
	V <sub>CL(ON) 2</sub>		-11	-10	-9	
	V <sub>CL(ON) 3</sub>		-6.5	-6	-5.5	
	V <sub>CL(ON) 4</sub>		-3.5	-3	-2.5	
	V <sub>CL(ON) 5</sub>			0		
	V <sub>CL(ON) 6</sub>		+2.5	+3	+3.5	
	V <sub>CL(ON) 7</sub>		+5	+6	+7	
0dB Level	V <sub>CL(ON) 5</sub>	V <sub>CC</sub> = 6.2 ~ 16V, V <sub>REF</sub> = 2.4 ~ 2.9V	1.2	1.3	1.45	V

\* : Applied pin: 4, 5, 6, 7

TEST CIRCUIT

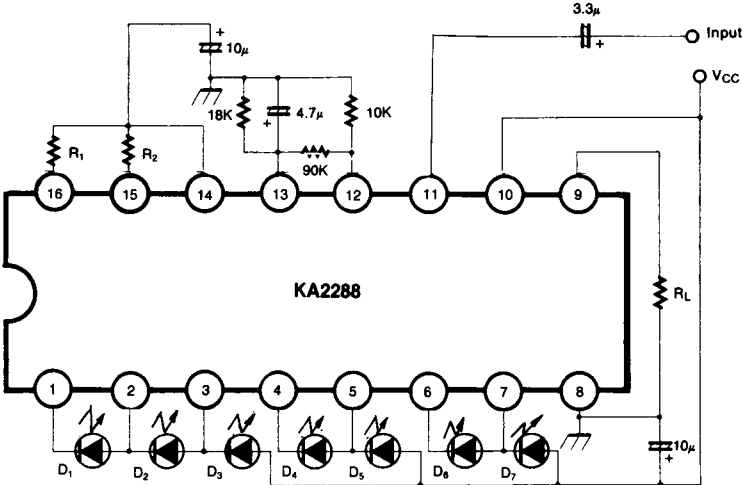


Fig. 2

This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.