5-DOT DUAL LED LEVEL METER DRIVER

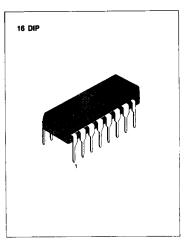
The KA2281 is a monolithic integrated circuit consisting of a 2-channel LED level meter driver which was designed for use in stereo radio cassette tape recorders and home stereos.

FEATURES

- Comparator AC level (-16, -11, -6, -3, 0dB)×2.
- Capable of driving red/green/yeollow LEDs.
- · Externally adjustable gain of input amplifier.
- Wide operating supply voltage range: V_{cc} = $5V \sim 14V$
- 10-dot dual output combinated with the KA2283.
- Applicable to 10-dot mono output.
- High input impedance.

BLOCK DIAGRAM

• A minimum number of external parts required.



ORDERING INFORMATION

Device	Package	Operating Temperature		
KA2281	16 DIP	– 20 ~ + 70°C		

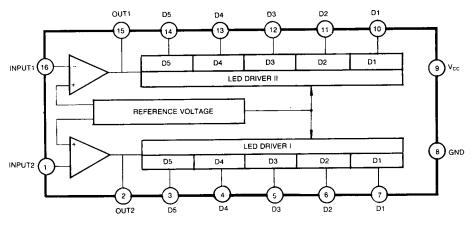


Fig. 1



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit	
Supply Voltage	Vcc	16	v	
D Terminal Output Current	I _D	30	mA	
Power Dissipation	P _D	600	mW	
Operating Temperature	TOPR	- 20~ + 70	°C	
Storage Temperature	T _{STG}	-40~ +125	°C	

ELECTRICAL CHARACTERISTICS

(Ta = 25°C, V_{CC} = 12V, f=1KHz, unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Quiescent Circuit Current	Ιςσα	V ₁ = 0		4		mA
D Terminal ON Voltage	V _{ON}	l _o =20mA		1.5		v
D Terminal Leakage Current	lo (LKG)	V ₁ = 0			50	μA
Voltage Gain (Closed Loop)	Gv			13.4		dB
Comparator ON Level	V _{CL (ON)} 1	G _v = 13.4dB	- 1	0	1	dB
	V _{CL (ON) 2}		-4	- 3	-2	
	V _{CL (ON) 3}		- 7.5	-6	-4.5	
	VCL (ON) 4		- 13	- 11	-9	
	V _{CL (ON) 5}		- 19	- 16	- 13	
LED ON Level Difference	ΔV _{CL}	V _{CL (ON)} 1-5 ⁻ V _{CL (ON)} 1-5 A _V = 13.4dB	- 1	0	1	dB
Input Impedance of Amp	Z			200		KΩ

* Definition of 0dB: when the value of Input voltage is 218mVrms



TYPICAL APPLICATIONS

1. 5-dot dual application

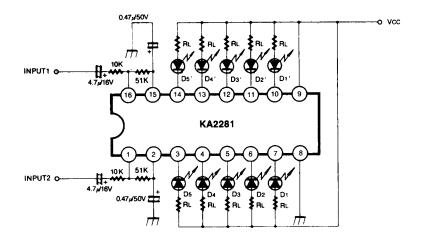


Fig. 2

2. 10-dot mono application

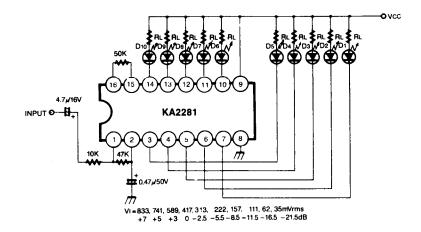


Fig. 3



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Datasheets for electronic components.