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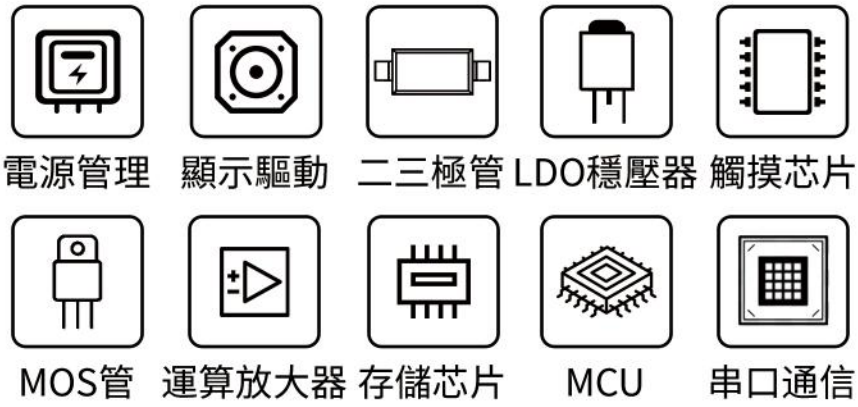


AN6884-TD

產品規格說明書

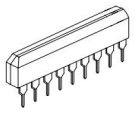
5-DOT DUAL LED LEVEL METER DRIVER

DESCRIPTION

AN6884 is a monolithic integrated circuit designed for 5-dot LED level meter drivers with a built-in rectifying amplifier. It is suitable for AC/DC level meters such as VU meters or signal meters.

FEATURES

*High gain rectifying amplifier included(Gv=26dB)
*Low radiation noise when LED turns on
*logarithmic indicator for 5-dot LED of bar type.
*Constant current output(15mA)
*Wide operating supply voltage(3.5V~16V)
*Not necessary diode or transistor for ALC
*Minimum number of external parts required



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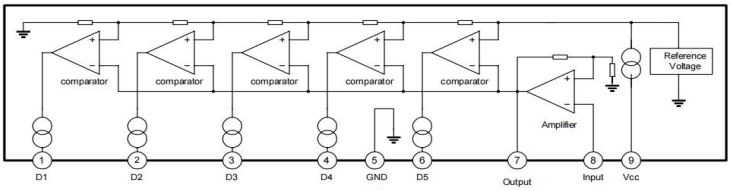
BLOCK DIAGRAM



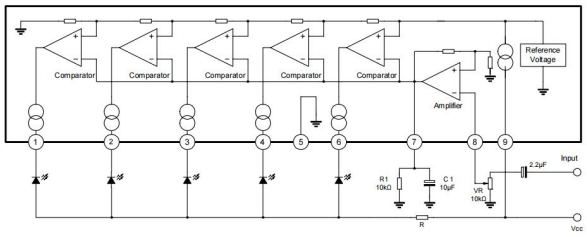
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	Vcc	18	V
Amplifier input Voltage	V8	-0.5V~Vcc	V
Pin 7 Voltage	V7	6	V
D terminal Output Voltage	V_D	18	V
Operating Temperature	Topr	-20 to +80	°C
Storage Temperature	Tstg	-40 to 125	°C
Power dissipation	P_D	1100	W

ELECTRICAL CHARACTERISTICS(Ta=25°C,Ta=25°C,V_{CC}=6V,f=1kHZ, unless otherwise specified)

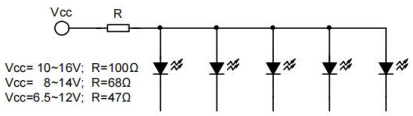
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Supply Voltage	V_{CC}		3.5	6.0	16.0	V
Supply Current	I_{CC}	V_{IN}=0		5	8	mA
Sensitivity	Vin	In V_{C3} Level	46	56	66	mV
Comparator ON Level 1	V_{C1}		-11.5	-10.0	-8.5	dB
Comparator ON Level 2	V_{C2}		-6	-5	-4	dB
Comparator ON Level 3	V_{C3}			0		dB
Comparator ON Level 4	V_{C4}		2.5	3.0	3.5	dB
Comparator ON Level 5	V_{C5}		5	6	7	dB
LED Output current	I_{LED}		11.0	15.0	18.5	mA
Amp Gain	Gv	Vi=0.1V	24	26	28	dB
Input Bias Current	I_{INO}		-1.0	-0.3		μA

TEST CIRCUIT



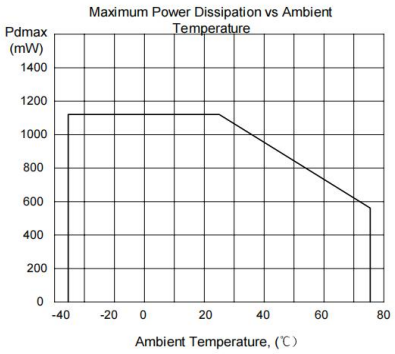
APPLICATION INFORMATION

1. By changing the time constant C1 and ,the response, attack and release time, may be varied. In the above application conditions, power dissipation may be operated at higher levels than the absolute maximum ratings. The wattage of R is to be determined by the total LED current and R value recommended by the R table.



TO 6884

TYPICAL PERFORMANCE CHARACTERISTICS



PACKAGE OUTLINE

SIP-9 UNIT: mm