UTC UNISONIC TECHNOLOGIES CO., LTD

LA2284/A

LINEAR INTEGRATED CIRCUIT

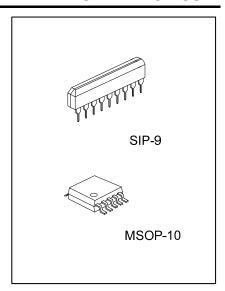
5-DOT DUAL LED LEVEL METER DRIVER

DESCRIPTION

The UTC LA2284/A 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.

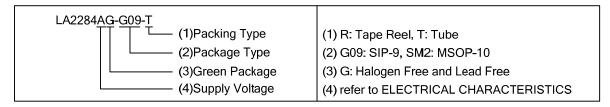
FEATURES

- *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
- *Not necessary diode or transistor for ALC
- *Minimum number of external parts required



ORDERING INFORMATION

Order Number		Package	Dooking	
Lead Free	Halogen Free	Fackage	Packing	
LA2284L-G09-T	LA2284G-G09-T	SIP-9	Tube	
LA2284L-SM2-T	LA2284G-SM2-T	MSOP-10	Tube	
LA2284L-SM2-R	LA2284G-SM2-R	MSOP-10	Tape Reel	
LA2284AL-G09-T	LA2284AG-G09-T	SIP-9	Tube	
LA2284AL-SM2-T	LA2284AG-SM2-T	MSOP-10	Tube	
LA2284AL-SM2-R	LA2284AG-SM2-R	MSOP-10	Tape Reel	

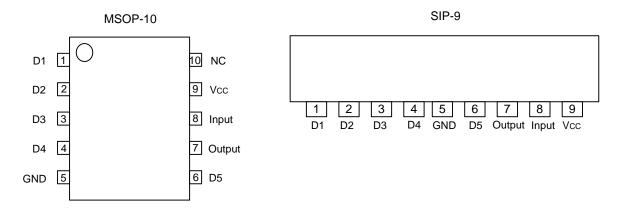


MARKING

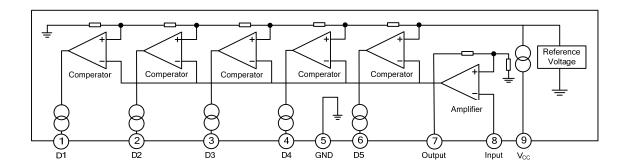
Dookogo	MARKING			
Package	LA2284	LA2284A		
SIP-9	Data Code LA2284 G: Halogen Free Lot Code 123456789	Data Code LA2284A G: Halogen Free Lot Code 123456789		
MSOP-10	Data Code UTC COO L: Lead Free G: Halogen Free Lot Code	Data Code UTC COO L: Lead Free G: Halogen Free Lot Code		

www.unisonic.com.tw 1 of 5

■ PIN CONFIGURATION



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

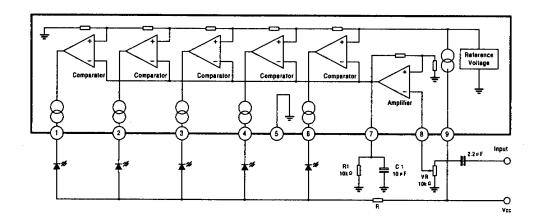
PARAMETER		SYMBOL	RATINGS	UNIT
Supply Voltage		V _{CC}	18	V
Amplifier input Voltage		V8	-0.5 ~ V _{CC}	V
Pin 7 Voltage		V7	6	V
D terminal Output Voltage		V_D	18	V
D D: : ::	SIP-9	-	1.1	W
Power Dissipation	MSOP-10	P _D	0.6	W
Operating Temperature		T _{OPR}	-20 ~ +80	°C
Storage Temperature		T _{STG}	-40 ~ +125	°C

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, V_{CC}=6V, f=1kHz, unless otherwise specified)

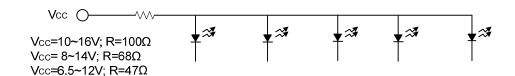
PARAMETER		SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	LA2284	V _{CC}		3.5	6.0	16	V
	LA2284A			3.0	6.0	16	٧
Supply Current		Icc	V _{IN} =0		5	8	mA
Sensitivity		V _{IN}	In V _C 3 Level	46	56	66	mV
Comparator ON Level 1		V _C 1		-11.5	-10.0	-8.5	dB
Comparator ON Level 2		V _C 2		-6	-5	-4	dB
Comparator ON Level 3		V _C 3			0		dB
Comparator ON Level 4		V _C 4		2.5	3.0	3.5	dB
Comparator ON Level 5		V _C 5		5	6	7	dB
LED Output Current		I _{O(LED)}		16.5		22	mA
Amp Gain		G∨	V _{IN} =0.1V	24	26	28	dB
Input Bias Current		I _{I(BIAS)}		-1.0	-0.3		μΑ

■ TEST CIRCUIT



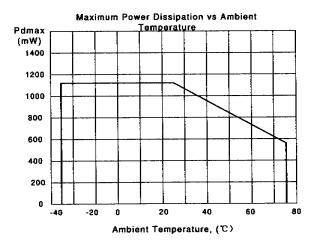
■ APPLICATION INFORMATION

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.



LA2284/A

■ TYPICAL CHARACTERISTIC



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