

UNISONIC TECHNOLOGIES CO., LTD

A6966

LINEAR INTEGRATED CIRCUIT

5 DOT LED LEVEL METER

■ DESCRIPTION

The UTC **A6966** is designed for 5 LED level meter driver in 9 lead SIP package. It consists of one input amplifier and five comparators for LED level indication.

■ FEATURES

- * Low Spurious Noise Operation.
- * Constant Current Output: IOUT=8mA (Typ.)
- * Indication Level Steps: 5dB, 5dB, 3dB, 3dB
- * Wide Operating Supply Voltage Range: V_{CC} = 4~ 12V
- * Variable Input Amplifier Gain: $G_V = 0 \sim 20 dB$



*Pb-free plating product number: A6966L

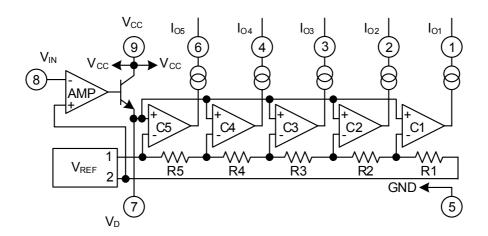
ORDERING INFORMATION

Order Number		Package	Dooking	
Normal	Lead Free Plating	Fackage	Packing	
A6966-G09-T	A6966L-G09-T	SIP-9	Tube	

A6966L-G09-T
(1)Packing Type
(2)Package Type
(3)Lead Plating
(1) T: Tube
(2) G09: SIP-9
(3) L: Lead Free Plating, Blank: Pb/Sn



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (Ta = 25)

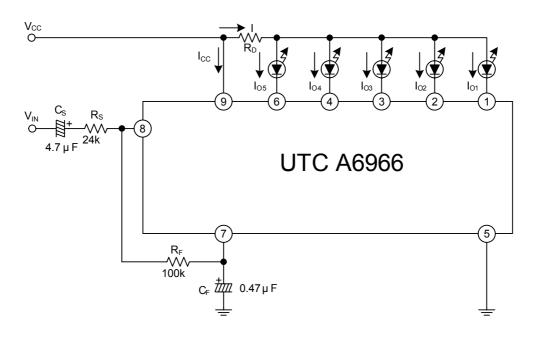
PARAMETER		RATINGS	UNIT				
Supply Voltage	V_{CC}	14	٧				
LED Driving Terminal Voltage		15	٧				
Power Dissipation	ם	600	mW				
Derated above Ta = 25	P _D	4	mW/				
Operating Temperature	T _{OPR}	-20 ~ +85					
Storage Temperature	T_{STG}	-40 ~ +150					

- Note 1. Absolute maximum ratings are stress ratings only and functional device operation is not implied. The device could be damaged beyond Absolute maximum ratings.
 - 2. The device is guaranteed to meet performance specifications within 0 \sim +70 operating temperature range and assured by design from -20 \sim +85 .

■ ELECTRICAL CHARACTERISTICS (Ta = 25 , V_{CC}= 9V, f = 1kHz, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Quiescent Current	ΙQ	V _{IN} = 0V		3	5	mA
Output Current	lout		5	8	10	mA
Output Leak Current	I _{OUT} (OFF)				50	μΑ
Sensitivity	V _{LD5} (ON)	$R_S = 24k\Omega$, $R_F = 100k\Omega$		230		mV_{RMS}
LED Turn-on Input Level	D5	$R_S = 24k\Omega$, $R_F = 100k\Omega$ $I_{OUT} = 1mA$	-1	0	1	
	D4		-4	-3	-2	
	D3		-7.5	-6	-4.5	dB
	D2		-13	-11	-9	
	D1		-19	-16	-13	

■ TYPICAL APPLICATION CIRCUIT



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