Monolithic Digital IC

SANYO

No.1507C

LB1408

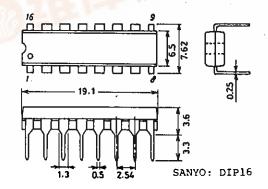
Level Meter

Features

- (1) An input amplifier is built in.
- (2) Minimum number of external parts required.
- (3) Low current dissipation because of series connection of LED's.

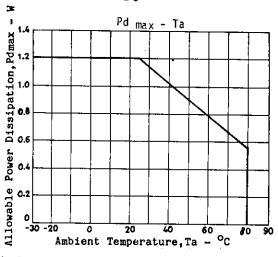
Absolute Maximum Ratings at Ta=25°C	unit
Maximum Supply Voltage V _{CC} max (Pin 3) -0.3 to +18	.o v
Maximum Input Voltage V _{TN} max (Pin 2) -0.3 to V	
D Fin Output Current Inmax Output transistor ON 0 to	ĕŏ mA
D Pin Output Voltage VDmax -0.3 to V	CC V
Reference Flow-Out Current Irefmax (Pin 4) -3.0 to	
	.2 W
Operating Temperature Topr -30 to +	
Storage Temperature Tstg -40 to +1	25 °C
Allowable Consisting Conditions of Ma 0500	
Allowable Operating Conditions at Ta=25°C Supply Voltage Vcc 6.7 to 16	unit
Supply Voltage V _{CC} 6.7 to 16	.0 V
Electrical Characteristics at Ta=25°C, V _{CC} =12V min typ m	ax unit
Current Dissipation I _{CC} Quiescent, pin 3	8 mA
3.3kohms aeross I _{LED1}	
and Vref	
Input Bias Current I _{IN} Pin 2	O µA
Reference Voltage Vref Pin 4 4.40 4.85 5	30 V
D Din Cremmant 1 T O O D	19 mA
I _{LED2} =GND, pins 7, 11, 14	
	3 V
Voltage 1,3,5,6	
D Pin Current 2 I _{D2,4,7} ",V _{CC} =6.7V, 12 V _{D1,3,6} =0.9V,pins 7,11,14	19 mA
V _{D1,3,6} =0.9V,pins 7,11,14	
OUT Pin Impedance R _{OUT} Pin'1' 8 12	6 kohm

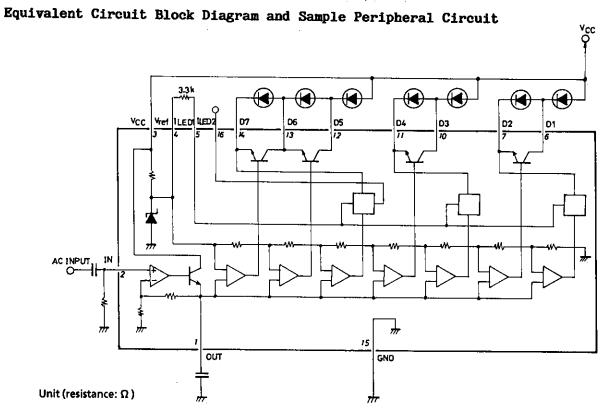
Package Dimensions 3064 (unit: mm)





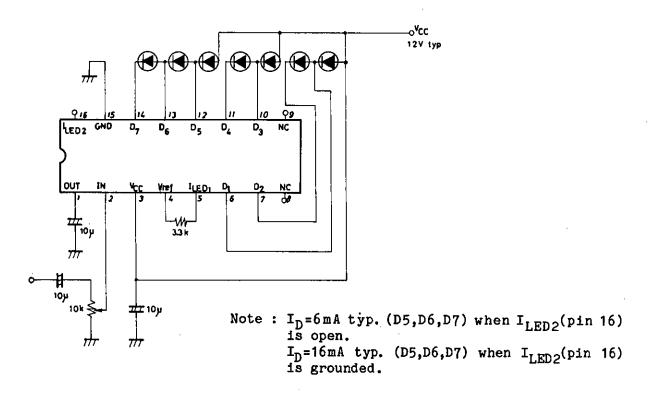
Continued from preceding	T Dage	· · · · · · · · · · · · · · · · · · ·		-		
	s bake	; •	min	typ	max	unit
Input Sensitivity	V _{IN5}	Input voltage at which LED of D5 is lighted	119	132	145	mV
Comparator Level D1	V _{T1}	Input voltage at which LED of D5 is lighted is taken as	-26 Odb.	- 20	-14	dB
D2	v_{T2}	n	-12	-10	-8	dВ
D3	VTZ	11	-7	-6	- 5	dВ
D4	V _{T4}	Ή	-3.5	-3.0	-2.5	đΒ
D5	V _{T5}	π	0	0	0	dB
D6	V _{T6}	n	2.5	3.0	3.5	đΒ
D7	V _{T7}	n	5	6	7	dB
Output Leakage Current	I _{DL} 1.3.	V _{IN} =0V,pins 6,10,12	0		10	μĀ
D Pin Current 3	I _{D7}	3.3kohms across II FD1 and Vrei	f 4.5	6.0	8.0	mA
D Pin Current 4	I _{D7}	I _{LED} 2=Open,pin 14 V _{CC} =6.7V, V _{D6} =0.7V,Pin 14	4.5		8.0	mA





Sample Application Circuit

Unit (resistance: Ω , capacitance: F)



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/orime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - 2 Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.