

T-77-21

IR2408 Running Indicator Display Driver

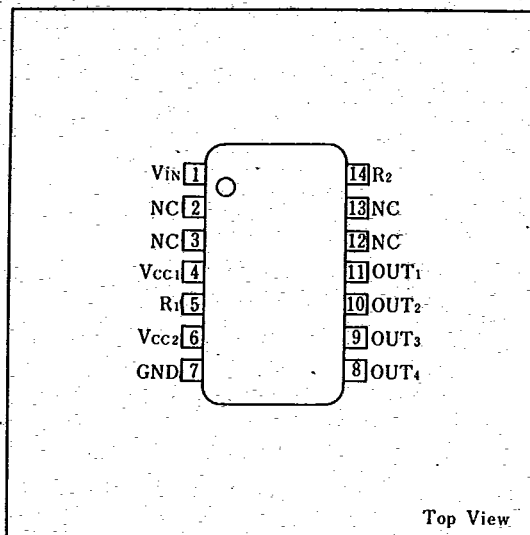
Description

The IR2408 is a running indicator LED display driver IC designed to light 4-LEDs in order.

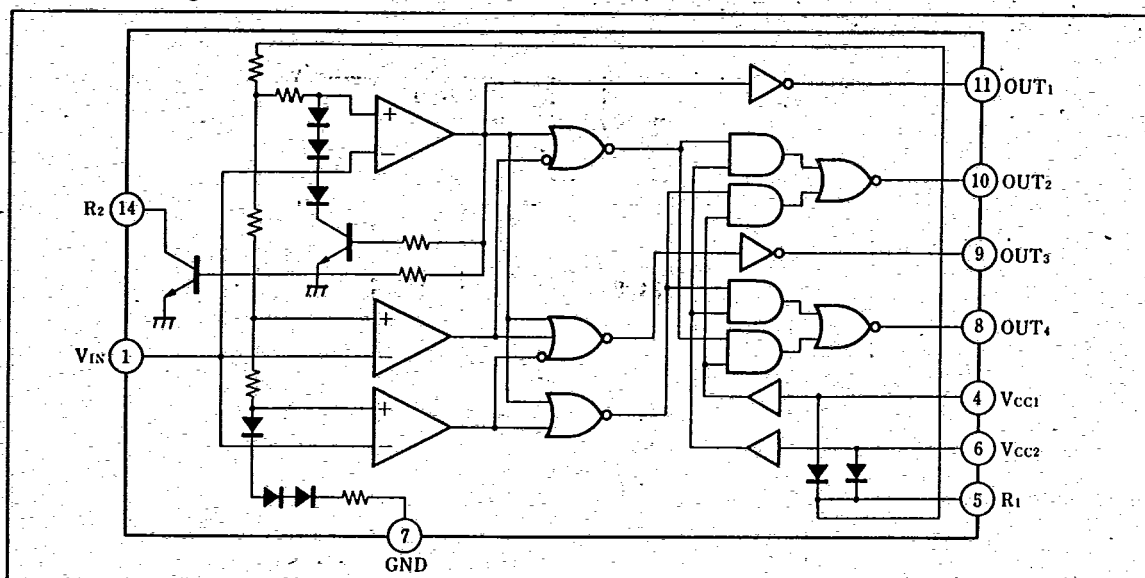
Features

1. Suit for tape recorder running indicator
2. Normal or reversal running
3. 14-pin dual-in-line package

Pin Connections



Block Diagram



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Running Indicator Display Driver

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IR2408

Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Condition	Rating	Unit
Supply voltage	V_{CC}		18	V
Output Current	I_{OUT}		50	mA
Power dissipation	P_D	$T_a \leq 25^\circ\text{C}$	650	mW
P_D derating ratio	$\Delta P_D/^\circ\text{C}$	$T_a > 25^\circ\text{C}$	6.5	mW/°C
Operating temperature	T_{opr}		-20 ~ +60	°C
Storage temperature	T_{stg}		-20 ~ +100	°C

Electrical Characteristics

(V_{CC}=12V, Ta=25°C)

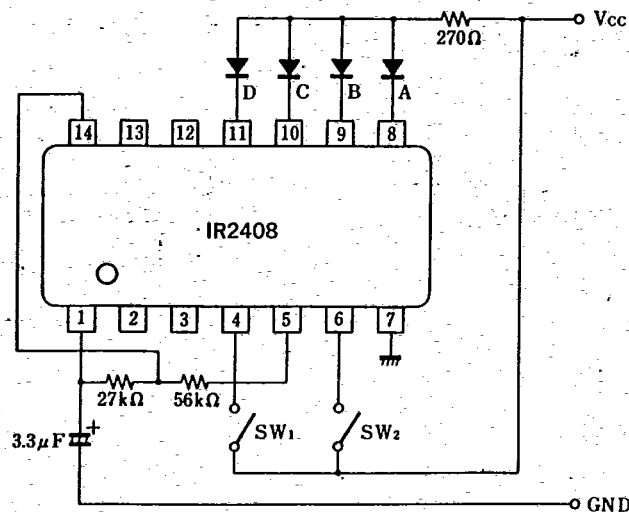
Parameter	Symbol	Condition	MIN.	TYP.	MAX.	Unit
Supply voltage	V_{CC}		6		15	V
Supply current	I_{CC}				19	mA
Input current	I_{IN}	$V_{IN}=1\text{V}$		1		μA
Light-on time ratio	Δt_1	Maximum/minimum light-on time ratio of pins 8~10			1.5	
	Δt_2	light-on time 8 output pin-11/total light-on time of pins 8~10	0.25		0.42	
Output saturation voltage	V_{SAT}	$I_{OUT}=35\text{mA}$			1	V
Oscillation frequency	f_{osc}	With constants shown in the basic connecting diagram	1.36	1.7	2.04	Hz

Basic Connection Diagram

When using 3 LEDs, use pins 8, 9, and 10 and leave pin 11 open.

Turning SW₁ ON causes the LEDs to light up in the sequence of D-C-B-A.

Turning SW₂ ON reverses the sequence for the LEDs to light up in the sequence of A-B-C-D.



SHARP