



LB1276

High-Sensitivity LED Driver Array

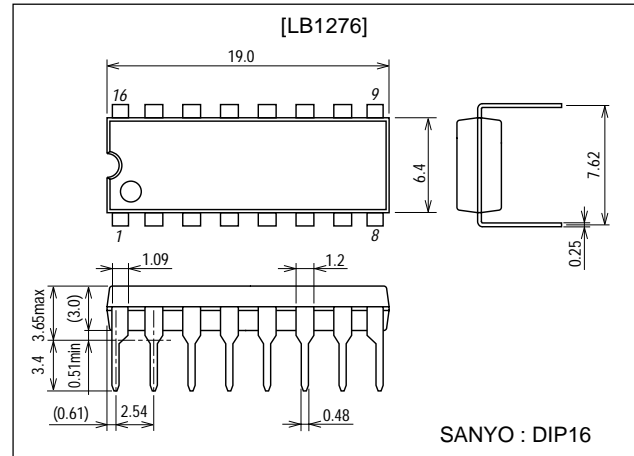
Overview

The LB1276 is an LED driver array. By connecting this IC to LSI output pins whose output current capacity is small, LEDs can be lighted. It features high sensitivity ($I_{IN}=80\mu\text{A}$ max.) and $I_{OUT}=30\text{mA}$ driving capacity and is ideally suited for driving LED indicators for use in commercial and industrial equipment.

Package Dimensions

unit:mm

3006C-DIP16



Specifications

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Output supply voltage	V_{OUT}		-0.3 to +18.0	V
Output current	I_{OUT}	Per unit	30	mA
Input supply voltage	V_{IN}		-0.3 to +18.0	V
Pin 8 flow-out current	I_g		-210	mA
Allowable power dissipation	P_d max		770	mW
Operating temperature	T_{opr}		-20 to +80	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +125	$^\circ\text{C}$

Allowable Operating Ranges at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Output applied voltage	V_{OUT}		up to 18	V
Input high-level voltage	V_{IH}	$I_{OUT}=30\text{mA}$	3.5 to 18.0	V
Input low-level voltage	V_{IL}	$I_{OUT}<10\mu\text{A}$	-0.3 to +0.3	V

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OUT}	$V_{IN}=5\text{V}$, $I_{OUT}=30\text{mA}$			1.2	V
Output sustain voltage	$V_{OUT(s)}$	V_{IN} : open, applied time<10 μs , $I_{OUT}=30\text{mA}$	18			V
Output leakage current	I_{off}	$V_{IN}=0.3\text{V}$, $V_{OUT}=18\text{V}$			10	μA
Input current	I_{IN}	$V_{IN}=5\text{V}$			80	μA

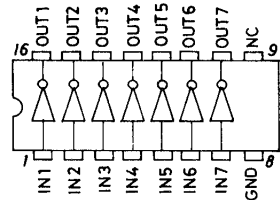
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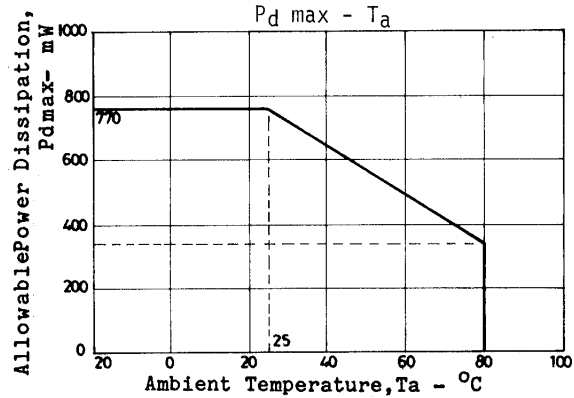
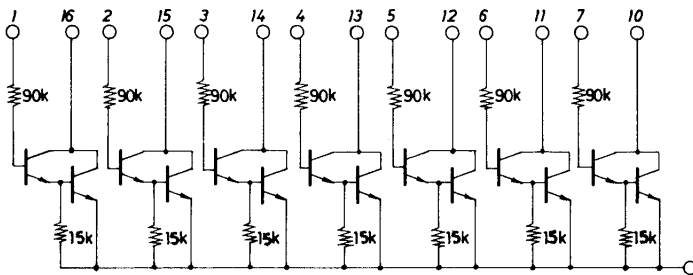
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Equivalent Circuit and Block Diagram



Unit (resistance: Ω)



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