

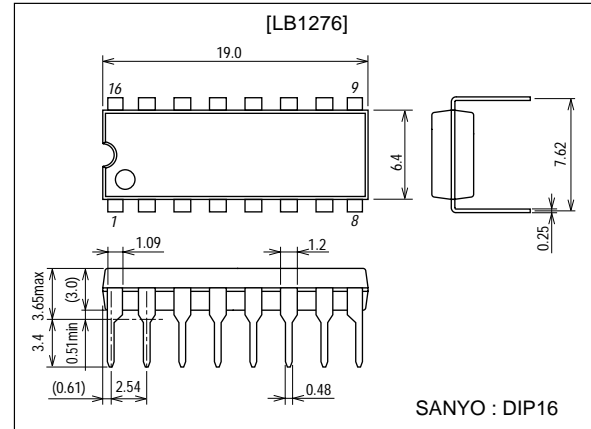
**LB1276****High-Sensitivity LED Driver Array****Overview**

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	$I_B$		-210	mA
Allowable power dissipation	$P_d \text{ max}$		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

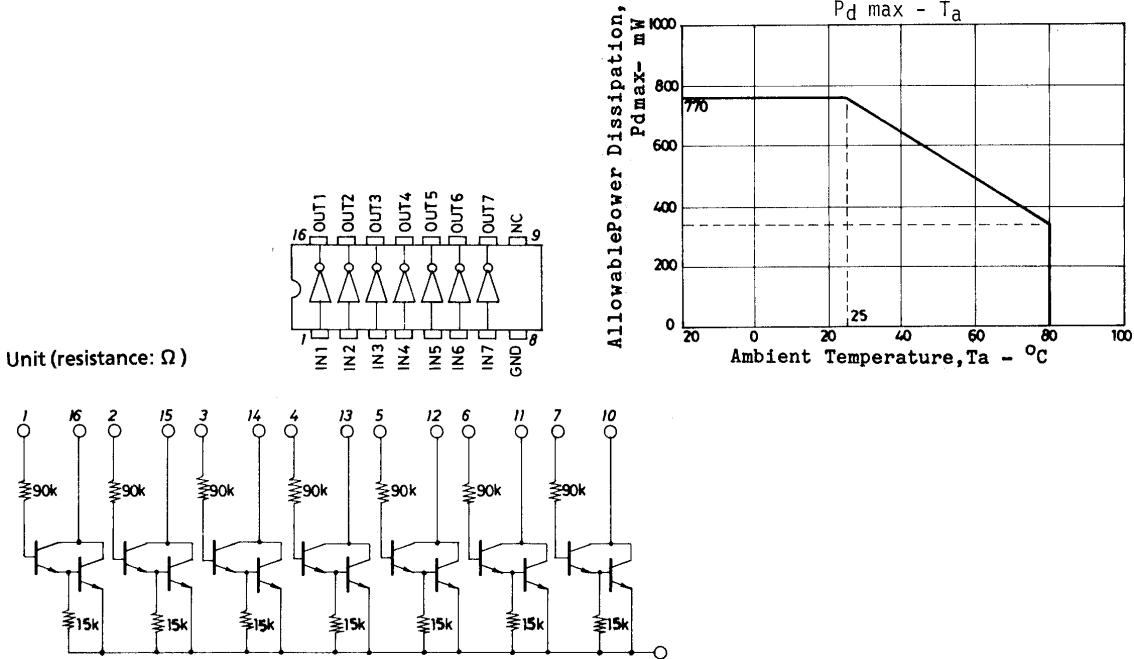
**Electrical Characteristics** at  $T_a = 25^\circ\text{C}$ 

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 $\mu\text{s}$ , $I_{OUT}=30\text{mA}$	18			V
Output leakage current	$I_{off}$	$V_{IN}=0.3\text{V}$ , $V_{OUT}=18\text{V}$			10	$\mu\text{A}$
Input current	$I_{IN}$	$V_{IN}=5\text{V}$			80	$\mu\text{A}$

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Equivalent Circuit and Block Diagram



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