

Monolithic Digital IC

SANYO

NO.667B

LB 1273R

6-Unit, Darlington Transistor Array

The circuit construction of this IC is a Darlington transistor array with six units, most suitable for printer hammer drive, lamp, and relay drive. With built-in protective diodes against negative inputs, it is advantageous in designing drive circuits for printey calculators and cash registers.

Features

- Since six units are included, it is suitable for 18-digit printers.
- The load current is considerably large i.e., 230mA and is, thus, suitable for thermal printers.

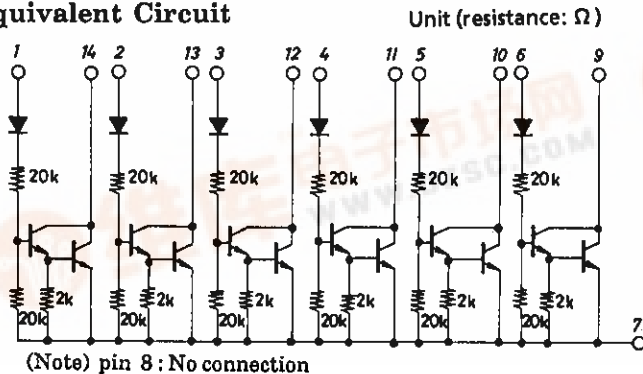
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Unit	Value
Output Supply Voltage	V _{OUT}	V	-0.3 to +20
Input Supply Voltage	V _{IN}	V	-40 to +20
Output Inflow Current	I _{OUT}	per unit	150 mA
Instantaneous Output Inflow Current	i _{op}	per unit duty=60% pulse width < 2ms	230 mA
GND Pin Inflow Current	I ₇		-700 mA
GND Pin Instantaneous Outflow Current	I _{7p}	duty=60% pulse width < 2ms	1.4 A
Allowable Power Dissipation	P _{d max}		1.15 W
Instantaneous Allowable Power Consumption		Pulse width must be less than 2 msec. The percentage of all of 6 units being ON must be less than 50% for 100ms.	2.3 W
Junction Temperature	T _j		125 °C
Operating Temperature	T _{opr}		-20 to +70 °C
Storage Temperature	T _{stg}		-40 to +125 °C

Allowable Operating Conditions at Ta = 25°C

Parameter	Symbol	Unit	Value
Output Supply Voltage	V _{OUT}	V	20
Input 'H' Level Voltage	V _{IH}	output terminal current = 150mA	15 to 20 V
Input 'L' Level Voltage	V _{IL}	output terminal current = 100uA	-35 to +1 V
Load Resistance	R _L	No inductance components should be included.	80 ohm (min)

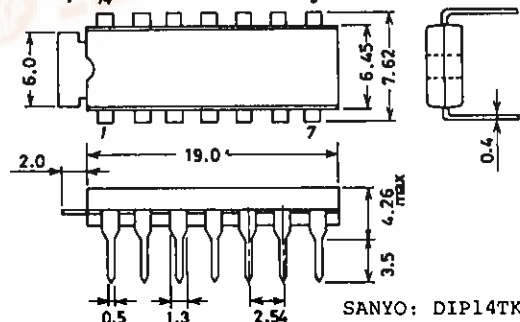
Equivalent Circuit



should be opened at operating mode.

Package Dimensions 3004A-D14TKIC

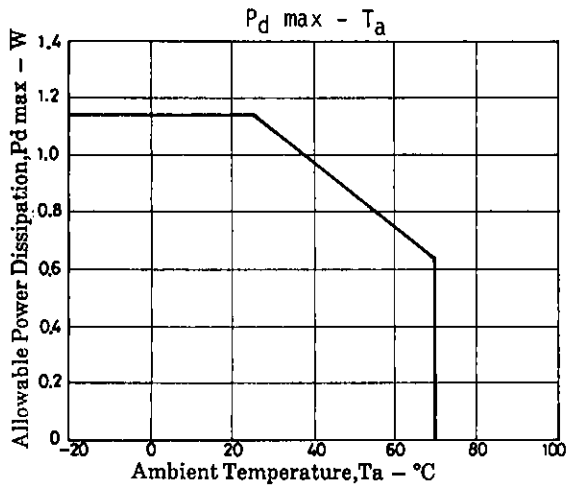
(unit : mm)



LB1273R

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

			min	typ	max	unit
Output Voltage	$V_{\text{OUT}(1)}$	$V_{\text{IN}} = 15\text{V}, I_{\text{OUT}} = 230\text{mA}$			1.7	V
Output Voltage	$V_{\text{OUT}(2)}$	$V_{\text{IN}} = 15\text{V}, I_{\text{OUT}} = 150\text{mA}$			1.5	V
Output Leak Current	I_{off}	$V_{\text{IN}} = 1.0\text{V}, V_{\text{OUT}} = 20\text{V}$			100	μA
Input Current	I_{IN}	$V_{\text{IN}} = 18\text{V}$			1.8	mA
Output Current	I_{OUT}	$I_{\text{IN}} = 0.5\text{mA}, V_{\text{OUT}} = 1.5\text{V}$	150			mA
Input Leak Current	I_{leak}	$V_{\text{IN}} = -35\text{V}$	-10			μA



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-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:
 - ① 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.