

No.783B

**LB1272**

Monolithic Digital IC

**SANYO****6-Unit, Darlington Transistor Array**

The circuit configuration of this IC is a 6-unit Darlington transistor array consisting of NPN transistors and is ideally suited for use in printer hammer driving, lamp or relay driving applications.

With the built-in protective diodes against negative inputs, this IC offers advantages to the driver circuit design of electronic calculator with printer and cash register, etc. which also use display tubes.

**Features**

- Ideally suited for 18-digit printer because of built-in 6 units.
- With built-in protective diodes against negative inputs.
- Ideally suited for printer mechanism with load current 85 mA.

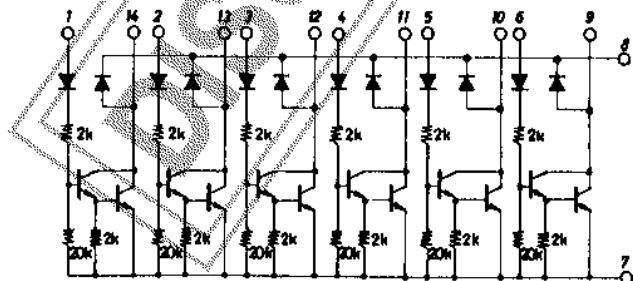
**Absolute Maximum Ratings at  $T_A = 25^\circ\text{C}$** 

		Per unit	unit
Output Supply Voltage	V <sub>OUT</sub>	-0.3 to +22	V
Input Supply Voltage	V <sub>IN</sub>	-40 to +12	V
Pin 8 Supply Voltage	V <sub>C</sub>	-0.3 to +20	V
Output Flow-in Current	I <sub>OUT</sub>	100	mA
Instantaneous Output Current	I <sub>OP</sub>	150	mA
Flow-in Current	"	160	mA
Spark Killer Diode Forward Current	I <sub>F(S)</sub>	150	mA
GND Pin Flow-out Current	I <sub>GP</sub>	-900 to 0	mA
Pin 8 Instantaneous Flow-out Current	I <sub>CCP</sub>	-900 to 0	mA
Pin 8 Flow-out Current	I <sub>CC</sub>	-600 to 0	mA
Allowable Power Dissipation	P <sub>d</sub> max	770	mA
Operating Temperature	T <sub>opr</sub>	-20 to +80	°C
Storage Temperature	T <sub>stg</sub>	-40 to +125	°C

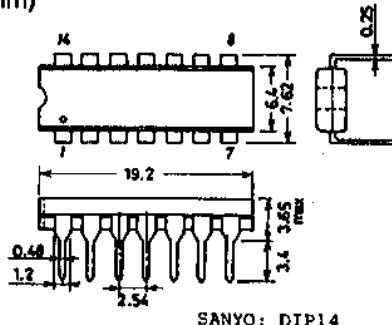
**Allowable Operating Conditions at  $T_A = 25^\circ\text{C}$** 

		unit
Output Supply Voltage	V <sub>OUT</sub>	22 V max
Input High Level Voltage	V <sub>IH</sub>	3 to 12 V
Input Low Level Voltage	V <sub>IL</sub>	-35 to +1 V
Load Inductance	L <sub>L</sub>	100 mH max

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**Equivalent Circuit**

Unit (resistance : Ω)

**Package Dimensions 3003A  
(unit : mm)**

SANYO: DIP14

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7097KI / 8215KI / 7213KI, TS / 7241KI, TS No.783-1/2

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

			min	typ	max	unit
Output Voltage	V <sub>OUT(1)</sub>	V <sub>IN</sub> =3V, I <sub>OUT</sub> =150mA			1.7	V
	V <sub>OUT(2)</sub>	V <sub>IN</sub> =3V, I <sub>OUT</sub> =100mA			1.4	V
Output Sustain Voltage	V <sub>OUT(s)</sub>	V <sub>IN</sub> =open, I <sub>OUT</sub> =150mA Applied time < 10μs	22			V
Output Leakage Current	I <sub>off</sub>	V <sub>IN</sub> =1V, V <sub>out</sub> =22V				μA
Input Current	I <sub>IN</sub>	V <sub>IN</sub> =3V				mA
Output Current	I <sub>OUT</sub>	I <sub>IN</sub> =0.3mA, V <sub>OUT</sub> =1.4V				mA
Input Leakage Current	I <sub>leak</sub>	V <sub>IN</sub> =-35V				μA
Spark Killer Diode Leakage Current	I <sub>leak(s)</sub>	V <sub>OUT</sub> =0V, Pin8=20V				μA
Spark Killer Diode Foward Voltage	V <sub>F(S)</sub>	I <sub>F(3)</sub> =150mA			1.7	V

