

Monolithic Digital IC

<b>SANYO</b>	NO.1570B	<b>LB1265,1265M</b>
	<b>8-Channel Low-Saturation Driver</b>	

The LB1265,1265M are 8-channel low saturation driver arrays having a strobe pin.

**Applications**

- . Drive of various relays.
- . Drive of display elements such as LED, lamp.
- . Interface.
- . Drive of small-sized printers.

**Features**

- . Low saturation output (0.3Vmax. at 80mA)
- . With a strobe pin.
- . On-chip spark killer diodes.
- . DIP20 package for high power use; MFP20 package for small-sized use.

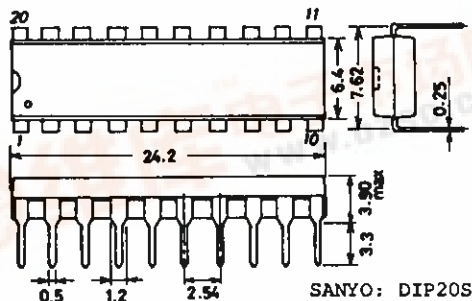
**Absolute Maximum Ratings at Ta=25°C**

			unit
Maximum Supply Voltage	V <sub>CC1</sub>	7.0	V
	V <sub>CC2</sub>	25	V
Output Supply Voltage	V <sub>OUT</sub>	28	V
Input Supply Voltage	V <sub>IN</sub>	7.0	V
Strobe Input Supply Voltage	V <sub>I(ST)</sub>	7.0	V
Output Current	I <sub>OUT</sub>	100	mA
Allowable Power Dissipation	P <sub>dmax</sub>	LB1265:DIP20S	1130
		LB1265M:MFP20	300
Operating Temperature	T <sub>opr.</sub>	-20 to +75	°C
Storage Temperature	T <sub>stg</sub>	-40 to +125	°C
Spark Killer Diode Forward Current	I <sub>F(S)</sub>	Pulse width ≤ 35ms, duty=5%	100 mA

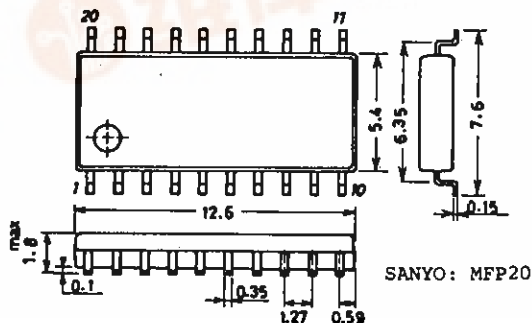
**Allowable Operating Conditions at Ta=25°C**

			unit
Supply Voltage	V <sub>CC1</sub>	3.0 to 7.0	V
"H" Level Input Voltage	V <sub>IH</sub>	2.0 to 7.0	V
"L" Level Input Voltage	V <sub>IL</sub>	-0.3 to +0.3	V

Package Dimensions 3021B-D20SIC  
(unit : mm) [LB1265]



Package Dimensions 3036B-M20IC  
(unit : mm) [LB1265M]

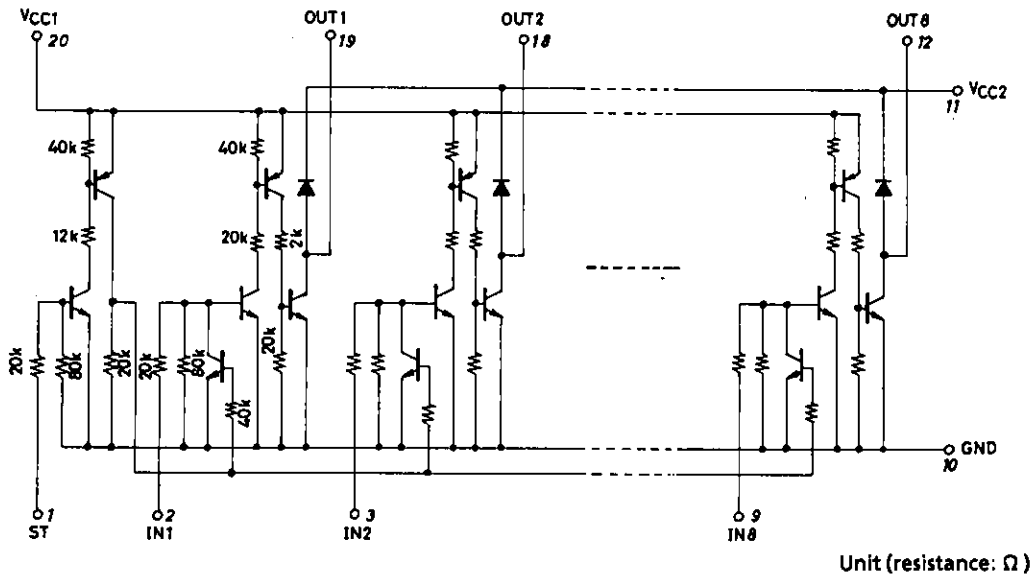


LB1265, 1265M

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Output Voltage	V <sub>OUT1</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =6.0V, V <sub>IN</sub> =4.0V, I <sub>OUT</sub> =80mA			0.3	V
	V <sub>OUT2</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =4.0V, V <sub>IN</sub> =2.0V, I <sub>OUT</sub> =40mA			0.25	V
Input Current	I <sub>IN</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =V <sub>IN</sub> =7.0V			0.5	mA
Strobe Input Current	I <sub>I(ST)</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =0V, V <sub>I(ST)</sub> =7.0V			0.5	mA
Output Leakage Current	I <sub>o(leak)1</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =V <sub>OUT</sub> =7.0V, V <sub>IN</sub> =0V			30	μA
	I <sub>o(leak)2</sub>	V <sub>CC1</sub> =V <sub>CC2</sub> =V <sub>OUT</sub> =V <sub>IN</sub> =7.0V, V <sub>I(ST)</sub> =4.0V			30	μA
Spark Killer Diode Forward Voltage	V <sub>F(S)</sub>	I <sub>F(S)</sub> =100mA			3.0	V
Spark Killer Diode Reverse Current	I <sub>R(S)</sub>	V <sub>CC2</sub> =7.0V, V <sub>OUT</sub> =0V			30	μA
Turn-ON Time (LB1265 only)	t <sub>on</sub>	V <sub>CC1</sub> =5.0V, V <sub>IN</sub> =5.0V, V <sub>OUT</sub> =25V, R <sub>L</sub> =250ohms, fpulse=1kHz, duty=50%		0.3		μs
Turn-OFF Time (LB1265 only)	t <sub>off</sub>			5.0		μs

Equivalent Circuit



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