

<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.

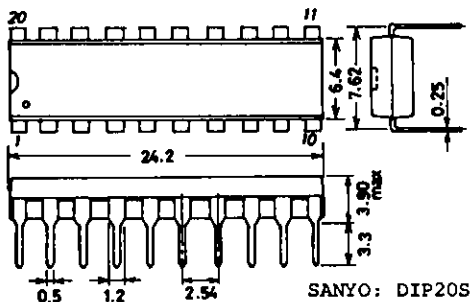
**Absolute Maximum Ratings at Ta=25°C**

				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	mW
		LB1265M:MFP20	300	mW
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

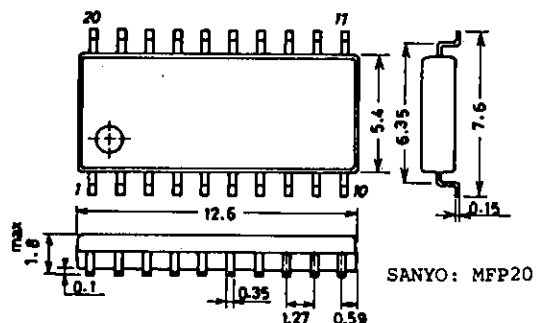
**Allowable Operating Conditions at Ta=25°C**

				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]

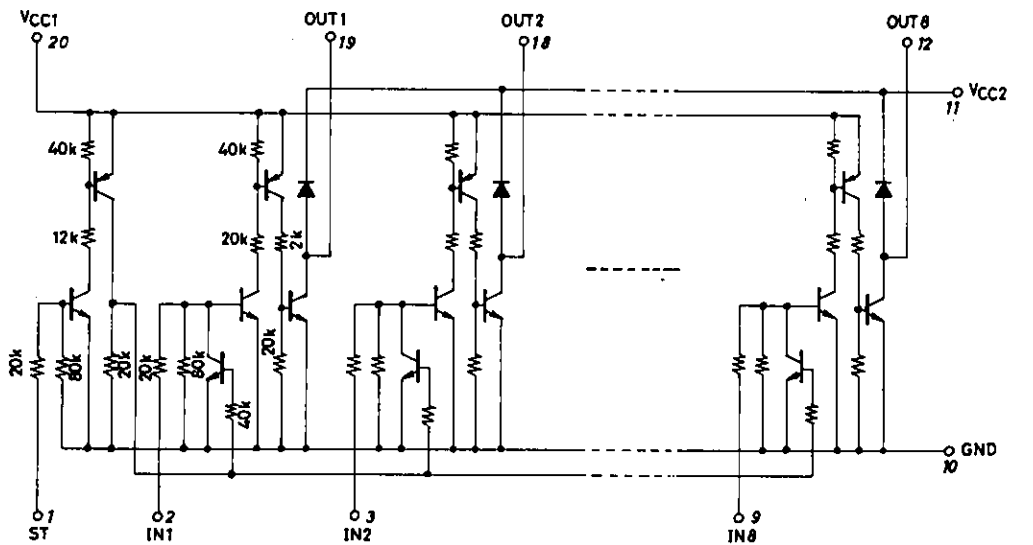


LB1265, 1265M

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Output Voltage	$V_{OUT1}$	$V_{CC1}=V_{CC2}=6.0V,$ $V_{IN}=4.0V, I_{OUT}=80mA$			0.3	V
	$V_{OUT2}$	$V_{CC1}=V_{CC2}=4.0V,$ $V_{IN}=2.0V, I_{OUT}=40mA$			0.25	V
Input Current	$I_{IN}$	$V_{CC1}=V_{CC2}=V_{IN}=7.0V$			0.5	mA
Strobe Input Current	$I_{I(ST)}$	$V_{CC1}=V_{CC2}=0V,$ $V_{I(ST)}=7.0V$			0.5	mA
Output Leakage Current	$I_{o(leak)1}$	$V_{CC1}=V_{CC2}=V_{OUT}=7.0V,$ $V_{IN}=0V$			30	$\mu A$
	$I_{o(leak)2}$	$V_{CC1}=V_{CC2}=V_{OUT}=V_{IN}$ $=7.0V, V_{I(ST)}=4.0V$			30	$\mu A$
Spark Killer Diode Forward Voltage	$V_{F(S)}$	$I_{F(S)}=100mA$			3.0	V
Spark Killer Diode Reverse Current	$I_{R(S)}$	$V_{CC2}=7.0V, V_{OUT}=0V$			30	$\mu A$
Turn-ON Time (LB1265 only)	$t_{on}$	$V_{CC1}=5.0V, V_{IN}=5.0V,$ $V_{OUT}=25V, R_L=250\Omega,$ $f_{pulse}=1kHz, duty=50\%$		0.3		$\mu s$
Turn-OFF Time (LB1265 only)	$t_{off}$				5.0	

Equivalent Circuit



Unit (resistance:  $\Omega$ )

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