Ordering number: EN 1570B

Monolithic Digital IC

NO.1570B

LB1265,1265M

8-Channel Low-Saturation Driver

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.

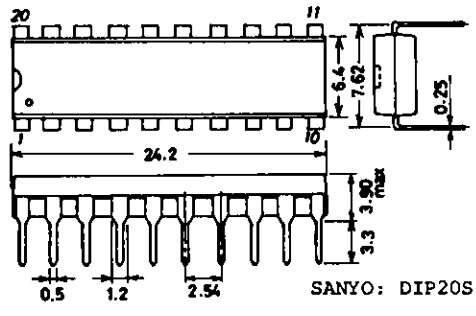
Absolute Maximum Ratings at Ta=25°C

				unit
Maximum Supply Voltage	$V_{CC}1$		7.0	V
	$V_{CC}2$		25	V
Output Supply Voltage	V_{OUT}		28	V
Input Supply Voltage	V_{IN}		7.0	V
Strobe Input Supply Voltage	$V_{I(ST)}$		7.0	V
Output Current	I_{OUT}		100	mA
Allowable Power Dissipation	Pdmax	LB1265:DIP20S	1130	mW
		LB1265M:MFP20	300	mW
Operating Temperature	Topr		-20 to +75	°C
Storage Temperature	Tstg		-40 to +125	°C
Spark Killer Diode Forward Current	$I_{F(S)}$	Pulse width≦35ms, duty=5%	100	mA

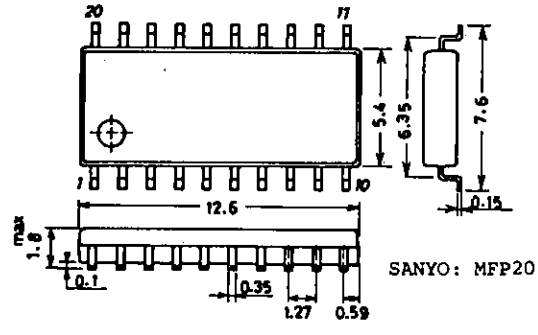
Allowable Operating Conditions at Ta=25°C

			unit
Supply Voltage	$V_{CC}1$	3.0 to 7.0	V
"H" Level Input Voltage	V_{IH}	2.0 to 7.0	V
"L" Level Input Voltage	V_{IL}	-0.3 to +0.3	V

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



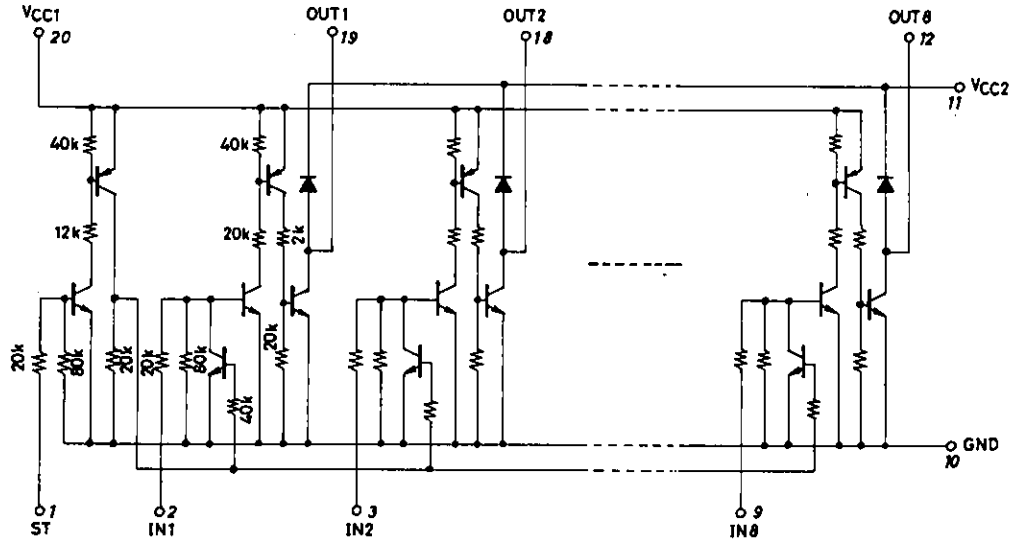
Package Dimensions 3036B-M20IC
(unit : mm) [LB1265M]



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	μA
	$I_{o(leak)2}$	$V_{CC1}=V_{CC2}=V_{OUT}=V_{IN}=7.0V$, $V_{I(ST)}=4.0V$			30	μA
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	μA
Turn-ON Time (LB1265 only)	t_{on}	$V_{CC1}=5.0V$, $V_{IN}=5.0V$, $V_{OUT}=25V$, $R_L=250ohms$, fpulse=1kHz, duty=50%		0.3		μs
Turn-OFF Time (LB1265 only)	t_{off}			5.0		μs

Equivalent Circuit



Unit (resistance: Ω)