

SANYO

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.

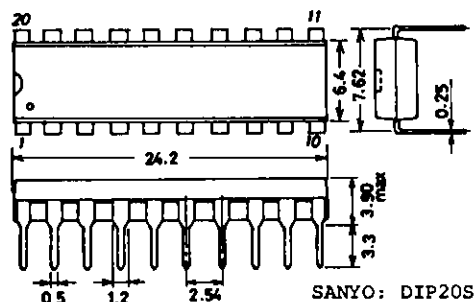
Absolute Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V _{CC1}	7.0	V
	V _{CC2}	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	P _{dmax}	LB1265:DIP20S	1130 mW
		LB1265M:MFP20	300 mW
Operating Temperature	T _{opr}	-20 to +75	°C
Storage Temperature	T _{stg}	-40 to +125	°C
Spark Killer Diode Forward Current	I _{F(S)}	Pulse width ≤ 35ms, duty=5%	100 mA

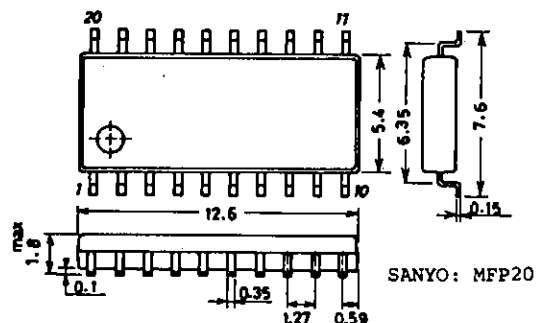
Allowable Operating Conditions at Ta=25°C

			unit
Supply Voltage	V _{CC1}	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]

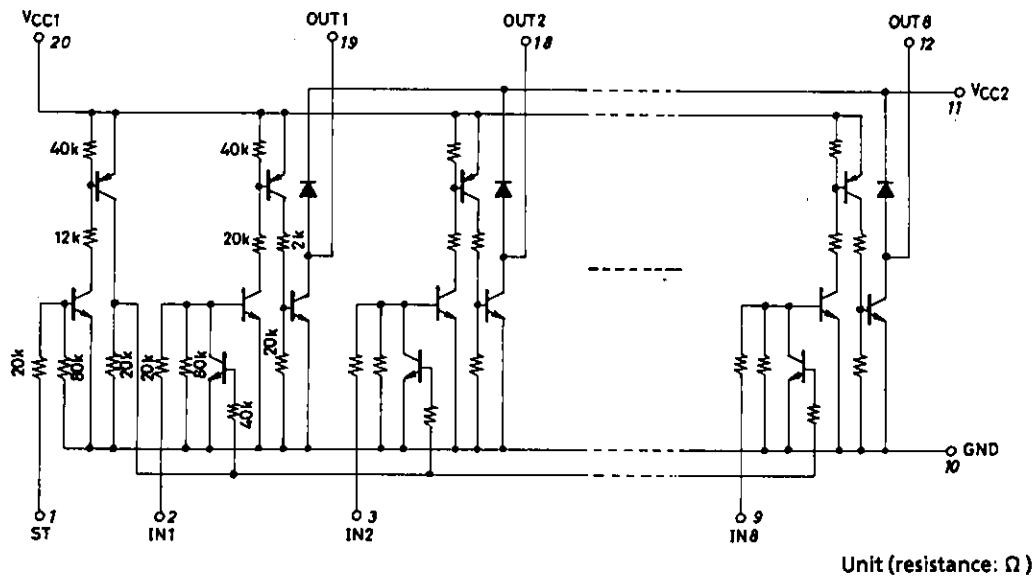


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Electrical Characteristics at Ta=25°C

			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}	$V_{CC1}=5.0V, V_{IN}=5.0V,$ $V_{OUT}=25V, R_L=250\Omega,$ $f_{pulse}=1kHz, duty=50\%$		0.3		μs
Turn-OFF Time (LB1265 only)	t_{off}			5.0		μs

Equivalent Circuit



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