Monolithic Digital IC

SANYO

NO.1369C

LB1245

Active-Low Input Fluorescent Display Tube Driver

The LB1245 has been designed for interfacing low-level digital devices to fluorescent display tubes. Its 8-channel independent Darlington output stage is used for digit and segment drivers. Equivalent pull-down resistors are built in; externally connected resistors to prevent ghosts are no longer required. Output is activated when input voltages are at a low level, making the IC an ideal interface for N-channel MOS devices. ($V_{\rm DD}$, $V_{\rm SS}$ of LSI can be made common to $V_{\rm DD}$, $V_{\rm SS}$ of the LB1245.)

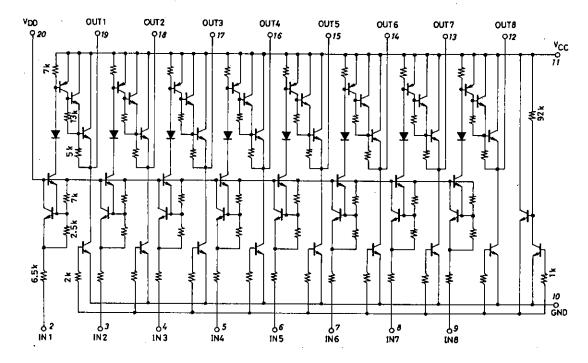
Features

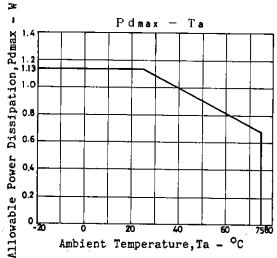
- . 8-channel independent Darlington driver.
- . Capable of driving digits or segments.
- . Built-in pull-down sink current.
- . Rated at 55V/30mA.

Absolute Maximum Ratings Maximum Power Supply Vo. Output Supply Voltage Input Supply Voltage Maximum Output Current Allowable Power Dissipa Operating Temperature Storage Temperature	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-0.3 to 1 V _{DD} -10 to 1	10.0 V VCC V VDD V 30 mA 1.13 W +75 °C
Allowable Operating Conditions Supply Voltage Input "ON" Level Voltage Input "OFF" Level Voltage	V _{CC} V _{DD} v	$v_{ m DD}$ -10 to $v_{ m DD}$ $v_{ m DD}$ -0.4 to	o 10 V o-3.2 V
Power Supply Current Output Voltage Pull-down Current Input Current Output Leakage Current	s at Ta=25°C, V _{CC} =55V, V I _{CCL} All inputs: open I _{CCH} All inputs: V _{IN} =V I _{DDH} All inputs: V _{OL} V _{IN} =V _{DD} -0.4V, I _{OU} V _{OH} V _{IN} =V _{DD} -5V, I _{OUT} = I _{OPL} V _{OUT} =V _{CC} I _{IN} 1 V _{IN} =V _{DD} -5V I _{IN} 2 V _{DD} =10V, V _{IN} =V _{DD} -10L V _{IN} =V _{DD} -0.4V, V _{OU}	V _{DD} -5V yr=0 =-30mA	max unit 2.0 mA 14 mA 6.5 mA 200 mV V 1.0 mA mA nA
GR SEFE WW	Package Dimensions 302 (unit : mm)	21B-D20SIC 24.2 24.2 2.54	SANYO: DIP20S

Equivalent Circuit

Unit (resistance: Ω)





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