

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.)

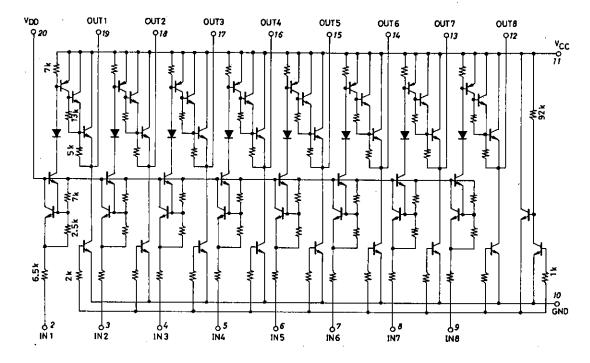
Features

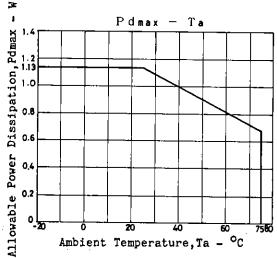
- . 8-channel independent Darlington driver.
- . Capable of driving digits or segments.
- . Built-in pull-down sink current.
- . Rated at 55V/30mA.

Absolute Maximum Ratings at Ta=25°C Maximum Power Supply Voltage V_{CC} max Output Supply Voltage V_{OUT} max Input Supply Voltage V_{IN} max Maximum Output Current V_{OUT} max Allowable Power Dissipation V_{OUT} max Operating Temperature V_{OUT} max Storage Temperature V_{OUT} max Topr	Unit -0.3 to +55.0 V V -0.3 to +10.0 V -0.3 to V _{CC} V V _{DD} -10 to V _{DD} V 30 mA 1.13 W -20 to +75 °C -40 to +150 °C
Allowable Operating Conditions at Ta=25°C Supply Voltage V _{CC} V _{DD} V _{DD} V _{DD} V _{CC} Input "ON" Level Voltage V _{ION} Input "OFF" Level Voltage V _{IOFF} V _{IOT} V _{OUT} =-30m.	•
Rectrical Characteristics at Ta=25°C, V_{CC} =55V, V_{DD} =5 Power Supply Current I_{CCL} All inputs: open I_{CCH} All inputs: $V_{IN} = V_{DD} = 5$ I_{DDH} All inputs: $V_{IN} = V_{DD} = 5$ I_{DDH} All inputs: $V_{IN} = V_{DD} = 5$ $V_{IN} = V_{DD} = 0$. $V_{IN} = V_{DD} = 10$ $V_{IN} = V_{DD} = 0$. $V_{IN} = V_{DD} = 0$.	V 14 mA 6.5 mA 200 mV A V _{CC} -2 V 0.2 0.4 1.0 mA -0.8 mA
Package Dimensions 3021B-D2 (unit : mm)	20SIC 24.2 2.4 SANYO, DIP20S

Equivalent Circuit

Unit (resistance: Ω)





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