

The image displays a 4x4 grid of circuit diagrams for various modules. The first row shows power regulation and connection diagrams. The second row shows power regulation diagrams for different voltage levels. The third and fourth rows show power regulation diagrams for different voltage levels. The diagrams include components like capacitors, resistors, and integrated circuits, with labels in Japanese and English.

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The schematic diagram illustrates the internal components and connections of the MAX3485 module. Key components include:

- MAX3485 (U9):** The central IC, a 16-pin DIP package, with pins labeled MD, RE, DC, and JPS.
- Q14 (Q_PNP_REC):** A PNP transistor used for level shifting.
- Q17, Q18, Q19, Q20 (PMN48XP):** PNP transistors used for signal conditioning.
- Resistors:** R51 (75k), R52 (20k), R53 (10k), R54 (10k), R55 (2.2k), R56 (2.2k), R57 (0.1uF), R58 (2.2k), R59 (120).
- Capacitors:** C31 (0.1uF), C32 (0.1uF), C33 (0.1uF), C34 (0.1uF).
- Connectors:** J10 (Conn_01x05_Female), J11 (Conn_01x05_Female), J12 (Conn_01x05_Female), J13 (Conn_01x05_Female), J14 (Conn_01x05_Female).
- Jumpers:** Jumper_2_Open, Jumper_3_Open, Jumper_4_Open, Jumper_5_Open.
- Power and Ground:** +3.3V supply, GND, and various signal lines (MD1_Pw, MD2_Pw, MD3_Pw, MD4_Pw, MD1_Mb, MD2_Mb, MD3_Mb, MD4_Mb).

The diagram shows the module's internal wiring, including the connection of the MAX3485 to the external components and the configuration of the jumpers for proper operation.

25mA LED driver

10mA LED driver

LED driver circuit diagrams

The figure displays four circuit diagrams for driving LEDs. The top two are for a 25mA LED, and the bottom two are for a 10mA LED. Each circuit includes a 3.3V supply, a 5k resistor, a 100nF capacitor, and a 10k resistor. The LED is connected to the output of the driver.

25mA LED driver (top left): A 3.3V supply is connected to a 5k resistor. The other end of the resistor is connected to the LED's anode. The LED's cathode is connected to ground. A 100nF capacitor is connected between the 5k resistor and the LED's anode.

25mA LED driver (top right): A 3.3V supply is connected to a 5k resistor. The other end of the resistor is connected to the LED's anode. The LED's cathode is connected to ground. A 100nF capacitor is connected between the 5k resistor and the LED's anode.

10mA LED driver (bottom left): A 3.3V supply is connected to a 5k resistor. The other end of the resistor is connected to the LED's anode. The LED's cathode is connected to ground. A 100nF capacitor is connected between the 5k resistor and the LED's anode.

10mA LED driver (bottom right): A 3.3V supply is connected to a 5k resistor. The other end of the resistor is connected to the LED's anode. The LED's cathode is connected to ground. A 100nF capacitor is connected between the 5k resistor and the LED's anode.

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The diagram shows two pin headers with their respective pin numbers and functions. Pin 1 is connected to GND, and Pin 2 is connected to 5V_UH. Pins 3 through 10 are connected to various functions: U1_LED1, U1_LED2, U1_LED3, U1_LED4, U1_LED5, MainIO_MSTY, and MainIO_MSEX.

Conn_01x09_Female (J1)

Pin	Function
1	GND
2	5V_UH
3	U1_LED1
4	U1_LED2
5	U1_LED3
6	U1_LED4
7	U1_LED5
8	MainIO_MSTY
9	MainIO_MSEX

Conn_01x10_Female (J12)

Pin	Function
1	GND
2	5V_UH
3	U1_toggle1
4	U1_toggle2
5	U1_toggle3
6	U1_toggle4
7	U1_toggle5
8	U1_toggle6
9	U1_toggle7
10	U1_toggle8