FM03111-060SVGA

应用手册

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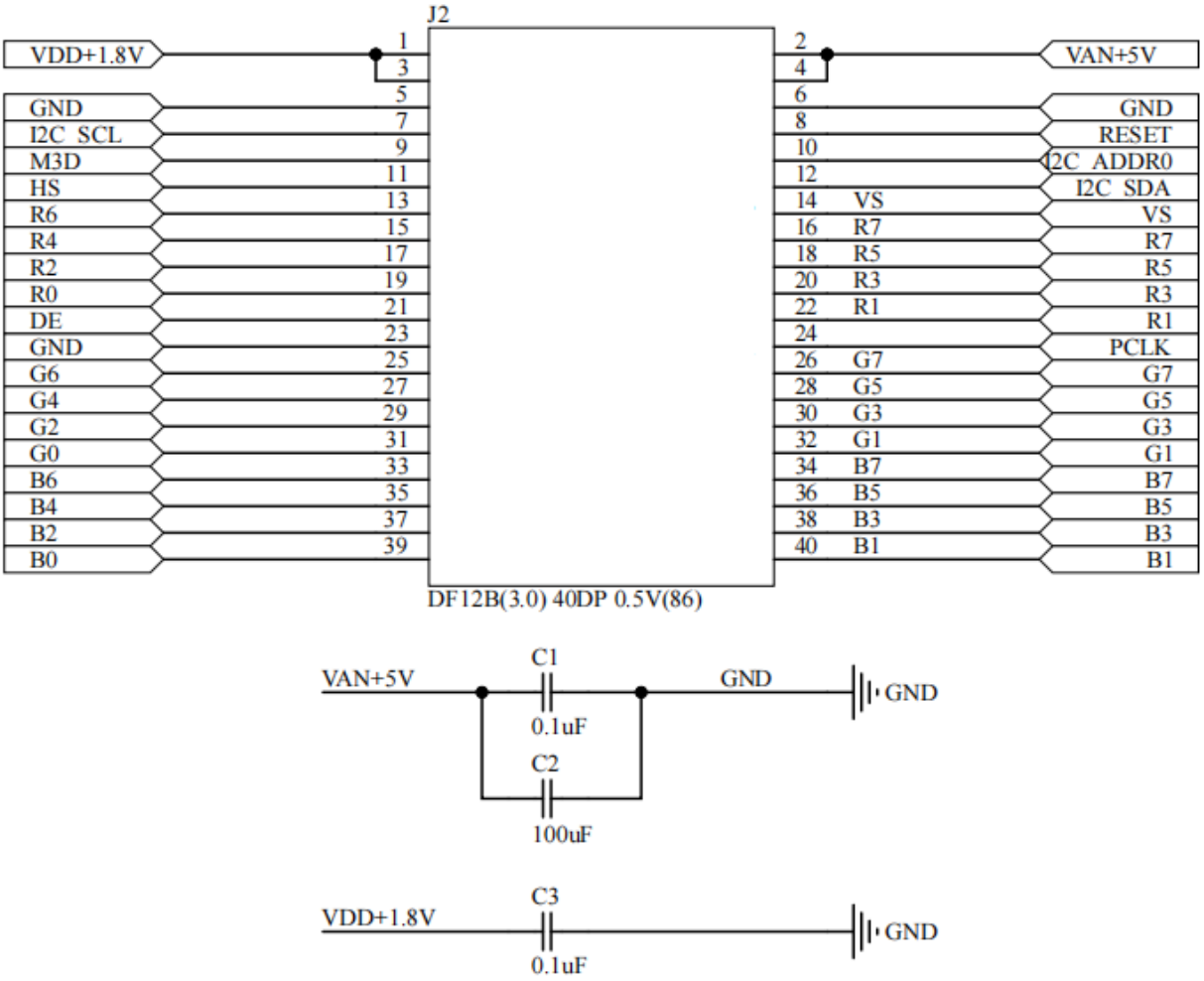
1 应用电路



连接器型号：DF12B(3.0)40DP 0.5V(86)

匹配连接器型号：DF12B(3.0)40DS 0.5V(86)

2 初始化代码

当 ADDR0 为 1.8V 时： 0.60 显示屏 I2C 地址：0x1E， EEPROM I2C 地址：0XA4

当 ADDR0 为 0V 时： 0.60 显示屏 I2C 地址：0x1C， EEPROM I2C 地址：0xA0

```
void oled_060_Init(void)//短代码初始化
{
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x10, 0x04); //关屏
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x50, 0x20);
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x51, 0x17);
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x52, 0x09);
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x01, 0x34);// 0x34 信号格式 24-bit 444, RGB；外同步+DE；逐行扫描；8bit422 YUV：0x41；16bit422 YUV：0x01；24bit444 YUV：0x11；
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x02, 0x00);// Vs/Hs 高电平有效
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x05, 0x00); //起始有效视频信号偏移量
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x08, 0x80); //亮度调整（00h~80h）
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x09, 0x80); //对比度调整（00h~80h）
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x03, 0x0A); //VSW
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0xB3, 0x0E); //VBP

    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x61, 0x0B); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x74, 0x00); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x75, 0x03); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x76, 0x40); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x77, 0x02); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x71, 0x03); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x8D, 0x7F); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x8E, 0x01); // YUV422
    // i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x8F, 0x3D); // YUV422
```

```
    oled060eepromUpdate();//读 EEPROM84 字节，更新到相关寄存器
     i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x0F, 0x80);//SLEEP 打开
    DELAY_milliseconds(100);
    i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x0F, 0x00); //SLEEP 关闭
     i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,0x10, 0x00);//显示打开
}
//EEPROM 读数据更新寄存器函数
void oled060eepromUpdate(void)//读 EEPROM 更新 GAMMA,亮度相关寄存器
{
    unsigned char eedata[128];        //EEPROM 读出缓存 BUFFER
    EEPROM_ReadBlock(0,&eedata,128); //读整个 EEPROM 128 字节
    __delay_ms(10);

  if((eedata[0] == 0x44)&&(eedata[42] == 0x2D)&&(eedata[82] == 0x41))//根据存储协议判断//EEPROM 读出数据是否正确
    {
      for(unsigned int i = 0;i<84;i++)//更新 0-15 RGB offset,VCOM 电压以及 17 点 GAMMA
      {
        i2c_write1ByteRegister(OLED060_SLAVE_ADDRESS,eedata[i], eedata[i+1]);
            i+=1;
      }
            //更新完后的校验
      if((i2c_read1ByteRegister(OLED060_SLAVE_ADDRESS,0x44) == eedata[1])&&
       (i2c_read1ByteRegister(OLED060_SLAVE_ADDRESS,0x2D) == eedata[43])&&
       (i2c_read1ByteRegister(OLED060_SLAVE_ADDRESS,0x41) == eedata[83]))
      {
        //EEPROM 数据更新到屏校验正确
      }else
      {
        //EEPROM 数据更新到屏校验错误
```

```
        }
    }
}
```