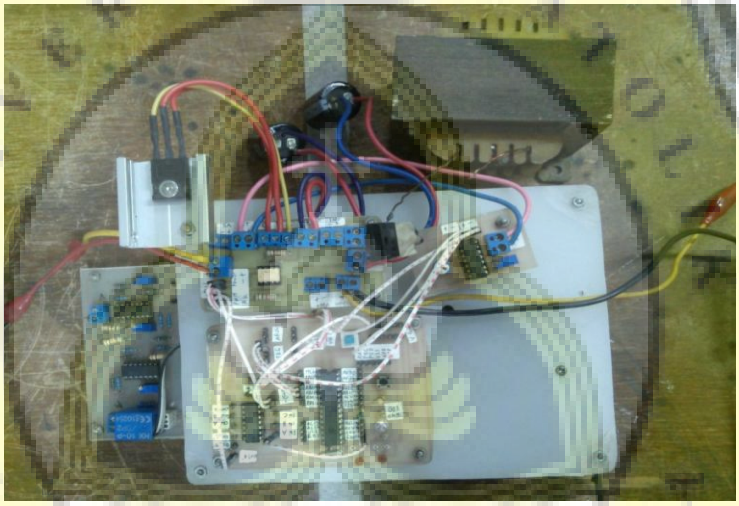
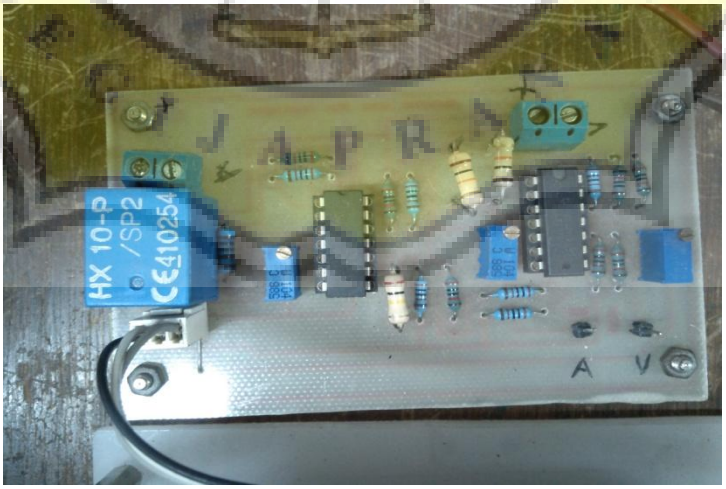
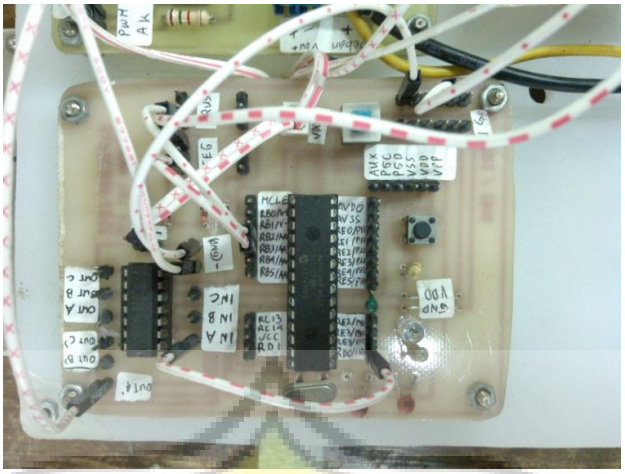
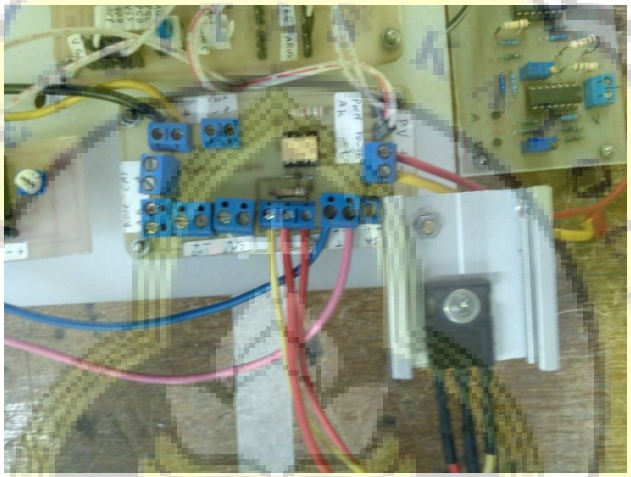
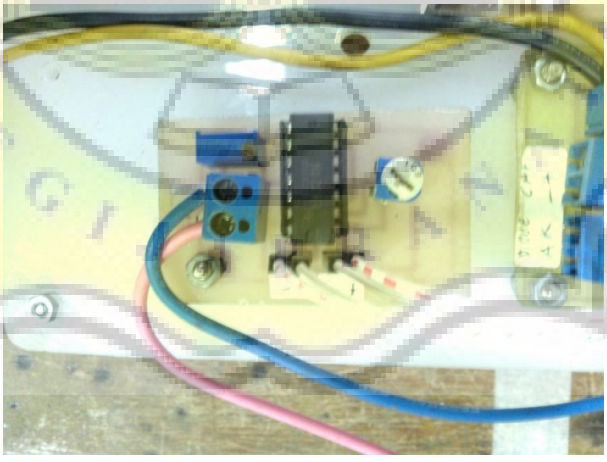
LAMPIRAN











TOSHIBA Photocoupler GaAlAs Ired & Photo-IC

TLP250

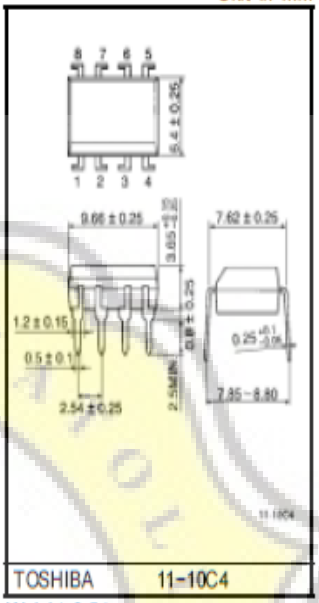
Transistor Inverter

Inverter For Air Conditionor

IGBT Gate Drive

Power MOS FET Gate Drive

Unit in mm



TOSHIBA 11-10C4

Weight: 0.54 g

The TOSHIBA TLP250 consists of a GaAlAs light emitting diode and a integrated photodetector.
This unit is 8-lead DIP package.
TLP250 is suitable for gate driving circuit of IGBT or power MOS FET.

- Input threshold current: I_F=5mA(max.)
- Supply current (I_{CC}): 11mA(max.)
- Supply voltage (V_{CC}): 10~35V
- Output current (I_O): ±1.5A (max.)
- Switching time (t_{pLH}/t_{pHL}): 1.5μs (max.)
- Isolation voltage: 2500V_{rms}(min.)
- UL recognized: UL1577, file No.E67349
- Option (D4) type

  VDE approved: DIN VDE0884/06.92,certificate No.76823

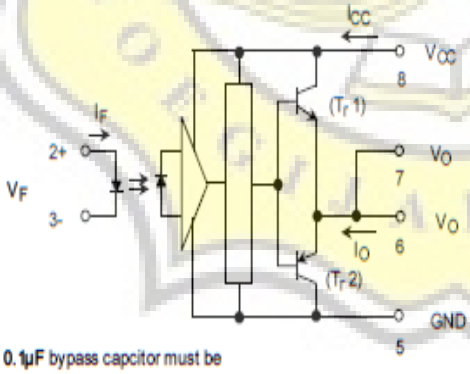
  Maximum operating insulation voltage: 630V_{PK}

  Highest permissible over voltage: 4000V_{PK}

  (Note) When a VDE0884 approved type is needed, please designate the "option (D4)"
- Creepage distance: 6.4mm(min.)

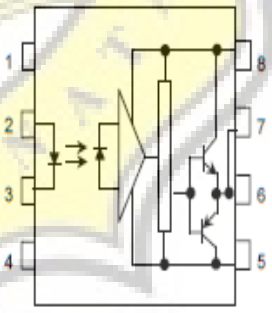
  Clearance: 6.4mm(min.)

Schmatic



A 0.1μF bypass capcitor must be connected between pin 8 and 5 (See Note 5).

Pin Configuration (top view)

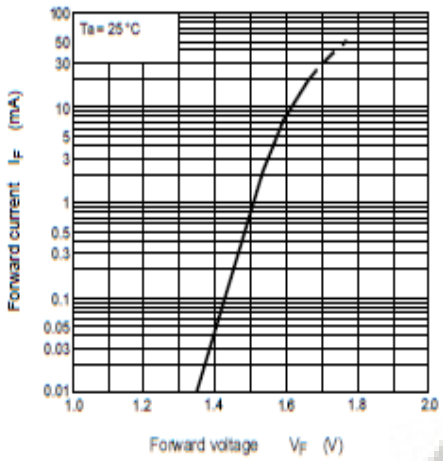


1 : N.C.
2 : Anode
3 : Cathode
4 : N.C.
5 : GND
6 : V_O (Output)
7 : V_O
8 : V_{CC}

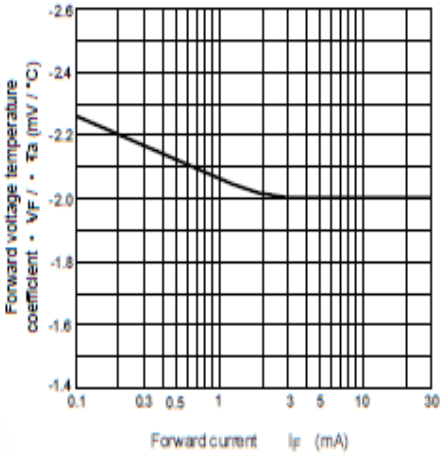
Truth Table

		Tr1	Tr2
Input LED	On	On	Off
	Off	Off	On

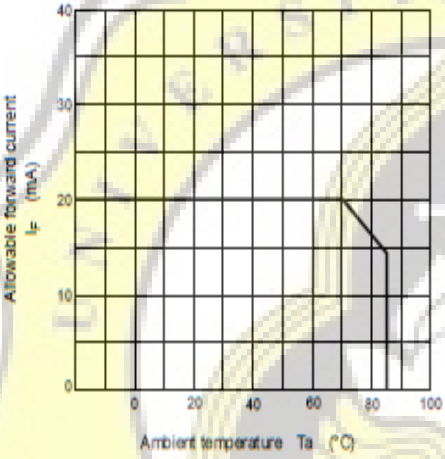
$I_F - V_F$



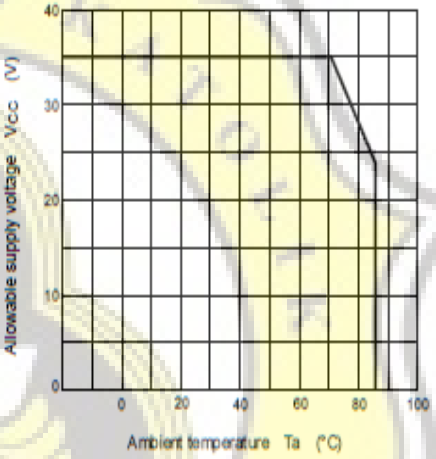
$\Delta V_F / \Delta Ta - I_F$



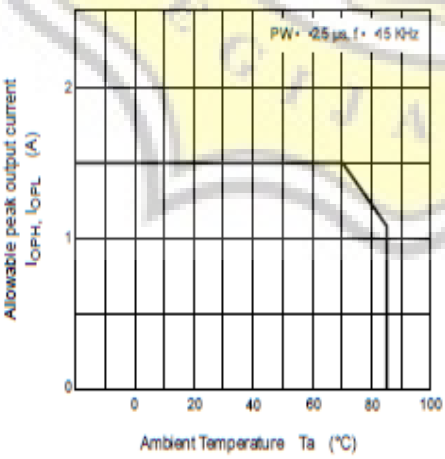
$I_F - Ta$



$V_{CC} - Ta$

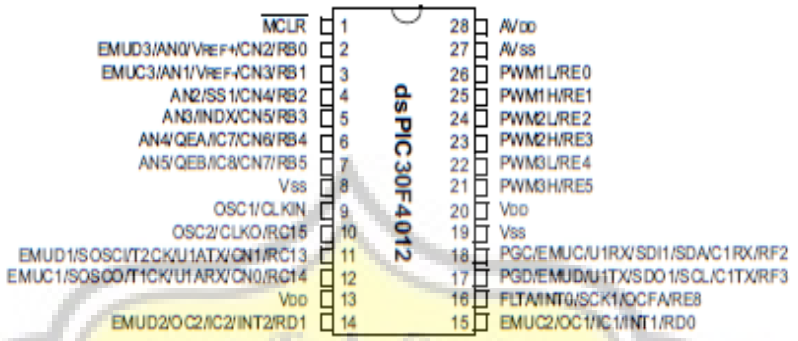


$I_{OPH}, I_{OPL} - Ta$



Pin Diagrams (Continued)

28-Pin SPDIP
28-Pin SOIC



44-Pin QFN

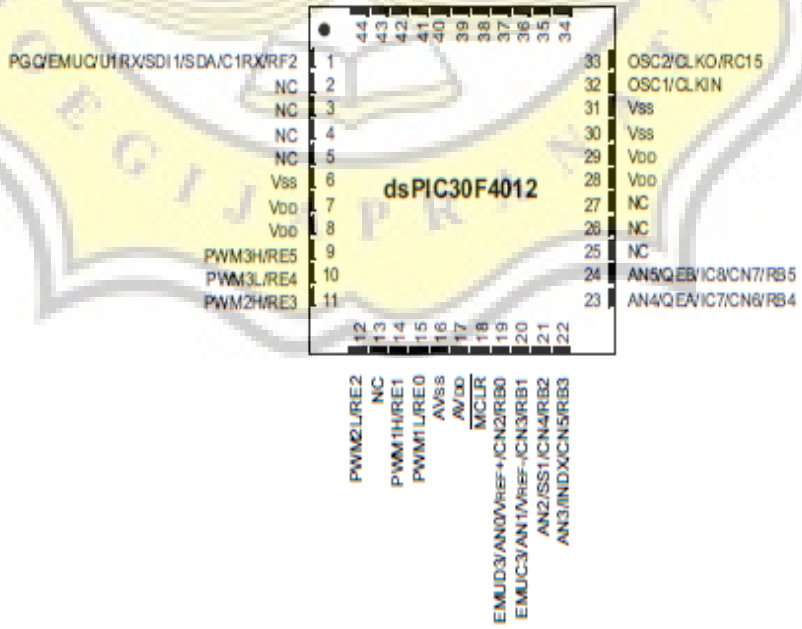
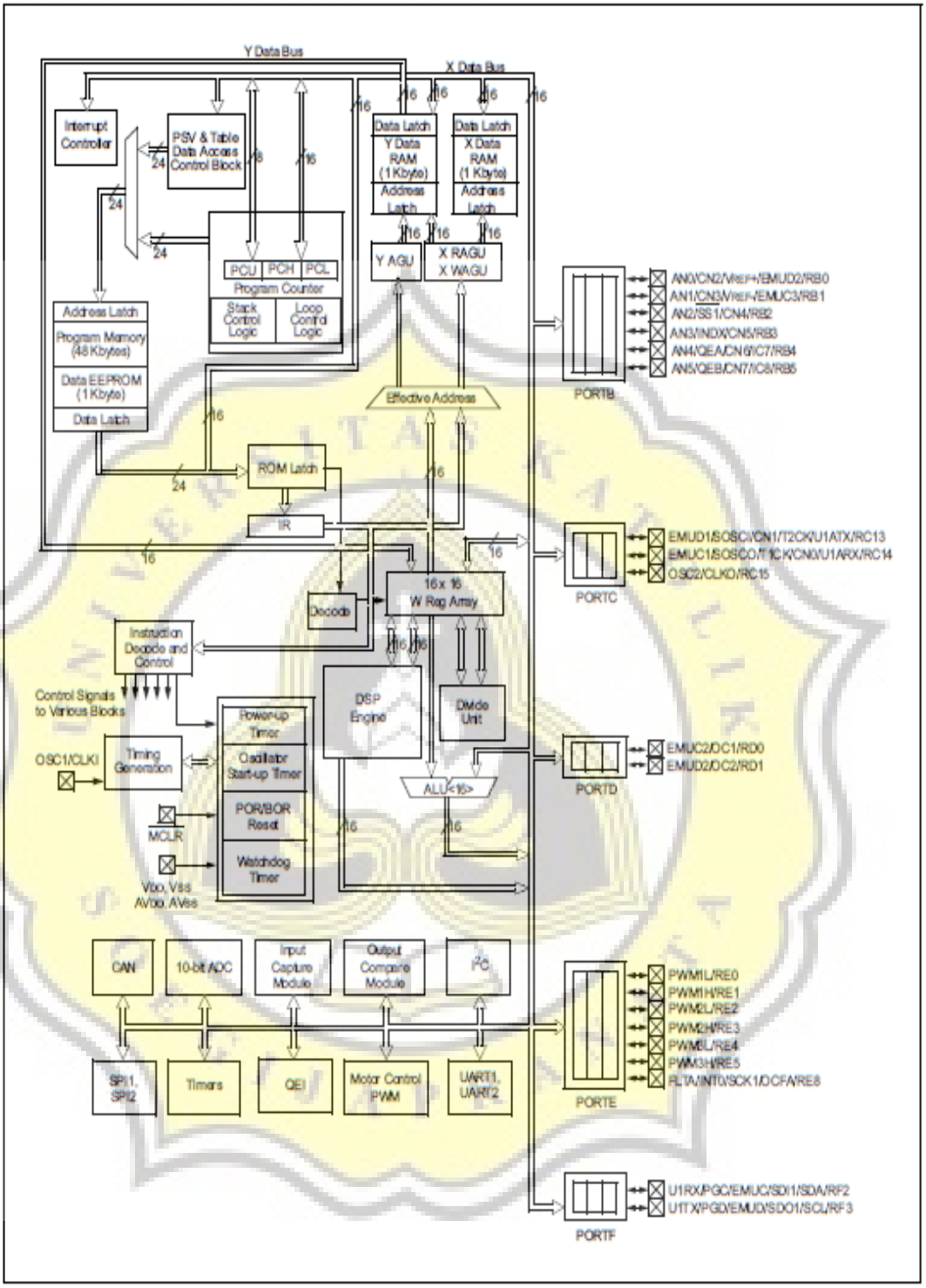


FIGURE 1-2: dsPIC30F4012 BLOCK DIAGRAM



```
/*
=========================================================
 KONTROL MPPT INCREMENTAL CONDUCTANCE (VOLTAGE CONTROL)
 INPUT VOLTAGE = RB3
 INPUT CURRENT = RB2
 OUTPUT TO GATE = LATD
 Test configuration  MCU :   dsPIC30F4012  (8 MHz)
=========================================================
*/
unsigned char ADC2,ADC3,V,I;
signed int duty;
signed long dI,dV,lastI,lastV;
signed long Pembagi1,Pembagi2;
signed long hasil1,hasil2,tambah;
signed long Error,kurang;

void Timer1Int() iv IVT_ADDR_T1INTERRUPT
    {
     T1IF_bit = 0;                      // Clear T1IF
    ADCON1bits.SAMP = 1;
    IFS0bits.ADIF = 0;                  // clear interrupt
    while (IFS0bits.ADIF);              // conversion done?
        {
        ADC2 = ADCBUF0;
        ADC3 = ADCBUF1;
        }
        I = ADC2;
        V = ADC3;
        lastI = I;
        lastV = V;
        dI = I - lastI;
```

```
        dV = V - lastV;
        Pembagi1=dI/dV;
        Pembagi2=hasil1/Pembagi1;
        hasil1=I*(-1);
        hasil2=V*(-1);
        tambah=Pembagi2+hasil2;
        Error=kurang;

         if (Error > 25)
         {
         if (duty >= PR1)
         duty = PR1-1;         //duty maksimum
         else
         duty++;
         }
         if (Error < 25)      //dP positif dI negatif
         {
         if (duty <= 3 )
         duty = 4;          //duty minimum
         else
         duty--;
         }
    }
void main()
    {
        TRISD = 0;
        LATD = 0;
        lastI = 0;
        lastV = 0;
        duty = 50;
        ADPCFG = 0xFFF3;                // RB2 & RB3 = analog
```

```
    ADCON1 = 0x00E0;            // SIMSAM bit = 0 : Samples multiple channels
                                   individually in sequence
                                // ASAM = 0 : Sampling begins when SAMP bit set
                                // SSRC = 111 auto-convert
    ADCHS = 0x0302;             // Connect AN3 as CH0 input (MUXB) and AN2 as CH0
                                   (MUXA)
    ADCSSL = 0;
    ADCON3 = 0x0302;            // Auto Sampling 3 Tad, Tad = internal 2 Tcy
    ADCON2 = 0x6005;            // Eksternal Vref
                                // only sample CH0
                                // SMPI = 0001 for interrupt after 2 converts
                                //MUXA and MUXB alternate
    ADCON1bits.ADON = 1;    // turn ADC ON

    IPC0   = IPC0 | 0x1000;         // Interrupt priority level = 1
    T1IF_bit = 0;               // Clear T1IF
    T1IE_bit = 1;               // Enable Timer1 interrupts
    T1CON = 0x8000;                 // Timer1 ON, internal clock FCY, prescaler
    PR1 = 6000;                 // L inti ferit (1500 s/d 2500 /  L inti besi (6000) //1300


    while (1)
    {
     if (duty >= TMR1)
     LATD = 0xFFFF;
     else
     LATD = 0;
    }
}
```

Cetak - Tutup Jendela - Klik Lebihnya pada bagian bawah email untuk mencetak pesan tunggal

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Tanggal:	Minggu, 12 Oktober 2014 15:45

Kepada

Ysh. **Bpk Adhi Kurniawan**

Dengan senang hati kami informasikan bahwa paper Bapak **diterima** untuk dipresentasikan di Industrial Research Workshop and National Seminar (IRWNS) 2014 **dengan beberapa revisi didalamnya**. Untuk itu kami kirimkan hasil penilaian/revisi dari tim reviewer IRWNS, dan kami harapkan hasil revisinya dapat kami terima dalam kurun waktu **3 (tiga) hari sejak kami kirimkan**.

Selanjutnya kami megundang Bapak/ Ibu untuk hadir pada Rabu tanggal **12 November 2014 di Politeknik Negeri Bandung**.

Untuk proses selanjutnya, kami mohon Bapak/ Ibu dapat mengisi dan mengirimkan formulir terlampir kepada panitia IRWNS 2014 (email: **irwns@polban.ac.id**).

Hormat kami,

Panitia IRWNS 2014