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## 16MHz crystal oscillator

.Standard frequency crystals 16 MHz – use these crystals to provide a clock input to your microprocessor

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## 1N4001 موحّد

1N4001 موحّد

الموصفات :

- يعمل على الحماية من الجهد العكسي يصل الى 50 فولت
  - جيد جدا للحماية من عكس القطبية
  - اقصى تحمل للتيار: 1 امبير
  - محتوى العبوة : 10 قطع
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## 20MHz crystal oscillator

.Standard frequency crystals 20 MHz – use these crystals to provide a clock input to your microprocessor

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## 4N35 VISHAY DIP-6

4N35 VISHAY DIP-6

**:Features**

Isolation test voltage: 5000Vrms •

- Switching time: 10μs •
  - Collector emitter breakdown voltage (Output): 70V •
  - Collector current(Output):50mA •
  - Forward current (Input): 50mA •
  - Forward voltage (Input) (TYP.): 1.3V@ Tamb=25°C •
  - Operating temperature: -55 to +100°C •
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## 6×6 مفتاح ضاغط

مفتاح صغير يمكن استخدامه كمفتاح ضاغط ، ينصح باستخدامه مع لوحة التجارب . كما انه مناسب مع لوحة PCB في تصميم المشاريع المختلفة

### المواصفات:

- نوع المفتاح : ضاغط
  - ابعاد المفتاح : 6×6 ملم
  - عدد اطراف التوصيل : 2
  - مقاومة المفتاح : < 0.03 اوم
  - عدد القطع : 10 قطع
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## 74HC595 Shift Register

- 8-bit serial input
  - 8-bit serial or parallel output
  - Storage register with 3-state outputs
  - Shift register with direct clear
  - 100 MHz (typical) shift out frequency
  - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
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## regulator 7805

regulator 7805

### :Features

Package/Case: TO-220 •  
Series No.: L7805CV •  
Output Voltage (at T=25°C): (Min.) 4.8V, (Typ.) 5V, (Max.) 5.35V •  
,Input voltage: (Min.) 7V (Max.) 25V •  
,Output Current To: 1.5A •  
Operating Junction Temperature Range: 0 to 150°C •  
Storage Temperature Range: -65 to 150°C •

#### **:PROTECTIONS**

THERMAL OVERLOAD PROTECTION •  
SHORT CIRCUIT PROTECTION •  
OUTPUT TRANSITION SOA PROTECTION •

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## Channel Darlington Driver – ULN2803 8

contains 8 drivers that can sink 500mA from a 50V supply, and has diodes included inside for driving coils. This will let the microcontroller or microcomputer power solenoids, DC motors (in one direction) and unipolar stepper motors.

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## Active Buzzer

Active Buzzer

#### **:Features**

Color: Black •  
,Related voltage: 5V •  
,Operation Voltage: 4-7V •  
,Related Current: <=30mA •  
,Sound output>=85dB •  
,Resonant Freq: 2300Hz •  
Operating temp -20/+60 C •

The DK112 is specially design for low power switch mode control, it is widely use in small household .electrical appliances

## **:APPLICATIONS**

- Battery charger ·DVD/VCD power supply
- Power AC/DC adapters ·Air conditioner power supply
- STB power supply ·AC/DC LED driver applications
- Electromagnetic oven power supply ·TV/Monitor power supply

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## Dual H-Bridge Motor Driver for DC or Steppers – 600mA – L293D

The Device is a monolithic integrated high voltage, high current four channel driver designed to accept standard DTL or TTL logic levels and drive inductive loads (such as relays solenoides, DC and stepping .motors) and switching power transistors

To simplify use as two bridges each pair of channels is equipped with an enable input. A separate supply input is provided for the logic, allowing operation at a lower voltage and internal clamp diodes are .included

.This device is suitable for use in switching applications at frequencies up to 5 kHz

The L293D is assembled in a 16 lead plastic packaage which has 4 center pins connected together and used for heatsinking The L293DD is assembled in a 20 lead surface mount which has 8 center pins .connected together and used for heatsinking

تُستخدم هذه الشريحة بكثرة في قيادة المحركات في مشاريع الروبوتات و في اغلب المشاريع التي تستخدم المحركات ضمن منظومتها

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## Game Joystick Module

This is a joystick very similar to the 'analog' joysticks on PS2 (PlayStation 2) controllers. Directional movements are simply two potentiometers – one for each axis. Pots are ~10k each. This joystick also has a

select button that is actuated when the joystick is pressed down

### **: Features**

Two independent 10K potentiometers with common ground

Spring auto return to center

Comfortable cup-type knob

Switch

Connector: +5Vcc - GND - VRx - VRy - SW

### **: Specifications**

Power: 0.01W

Interface: Dual 10K potentiometers with common ground

Operating temp range: +32°F to +158°F (0°C to +70°C)

GND: ground

+5V: 5V DC

VRx: voltage proportional to x position

VRy: voltage proportional to y position

SW: switch push button

ذراع التحكم ( عصا الألعاب ) يمكن استخدامه للتحكم في الاتجاهات ، يعتبر جهاز تحكم تماثلي يمكن تحريك الذراع لعدة اتجاهات ،  
يشبه لحد كبير الذراع الموجود في PlayStation 2