


















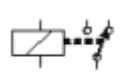









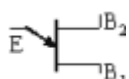





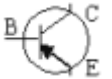
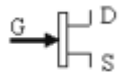
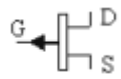
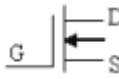

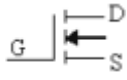
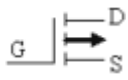











## Temel Devre Eleman Sembolleri

				
Bağlantı Var	Bağlantı Yok	Direnç	Trimpot	Potansiyometre
				
Reosta	LDR	NTC	PTC	Bobin
				
Elektrolitik Kondansatör	Trimer Kondansatör	Varyabl Kondansatör	Kutupsuz Kondansatör	Transformatör
				
Mikrofon	Hoparlör	Batarya	Şase	Röle
				
7 Segment Display	Diyot	Zener Diyot	Shoottky Diyot	Dört Tabaka Diyot
				
LED	Foto LED	SUS	SBS	UJT
				
PUT	Diyak	Tristör	Triyak	NPN Transistör
				
PNP Transistör	N Kanal Fet	P Kanal Fet	N Kanal Depletion MOSFET	P Kanal Depletion MOSFET
				
N Kanal Enhancement MOSFET	P Kanal Enhancement MOSFET	OP-AMP	Ve AND Kapısı	Veya OR Kapısı
				
Buffer (Tampon)	Invert (Değil)	Ve Değil Kapısı	Veya Değil Kapısı	Özel Veya Kapısı
				
Özel Veya Değil Kapısı				

Elektronikle uğraşan kişilerin çalışmalarında başarılı olabilmeleri için öncelikle bilmesi gereken en önemli konu devrelerde kullanılan elemanlar ve görevleridir.

Elektronik Devre Elemanları 2'ye ayrılır.

### 1. **Pasif Devre Elemanları**

- Dirençler
- Kondansatörler
- Bobinler

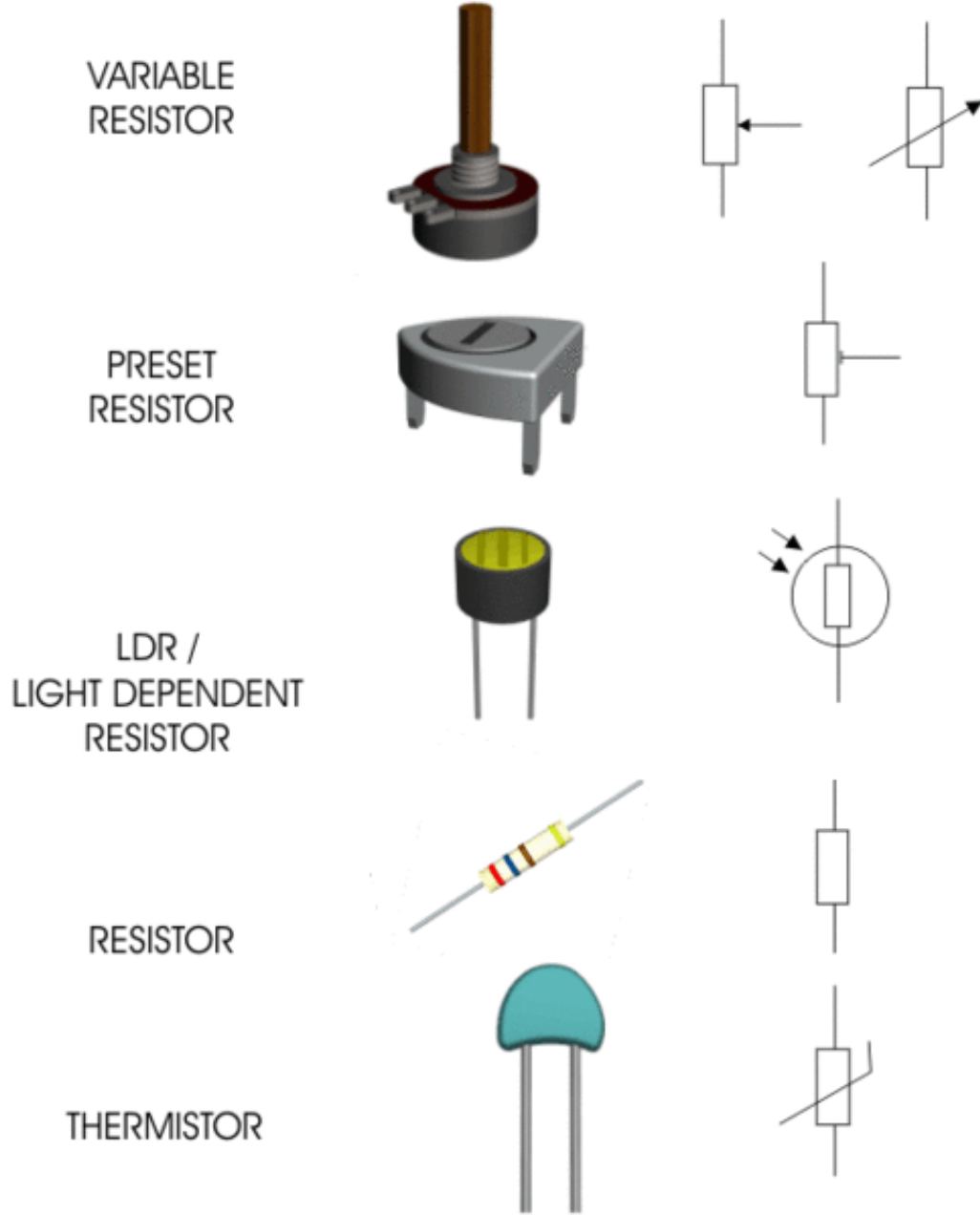
### 2. **Aktif Devre Elemanları**

- Diyotlar
- Transistörler
- Entegre Devreler

## Elektronik Devre Elemanları ve Sembolleri

Elektronikte kullanılan devre elemanlarının projelerde ve devre şemalarında herkes tarafından anlaşılabilmesi için "sembollerle" gösterim yapılır. En çok kullandığımız bazı elektronik devre elemanların sembolleri aşağıda gösterilmiştir.

### Direnç ve Çeşitleri



## Diyot, Ampul, Motor ve Bobin

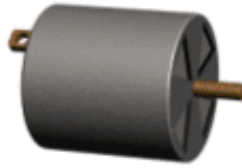
DIODE



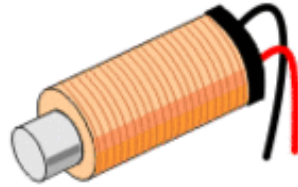
BULB / FILAMENT



MOTOR



SOLENOID

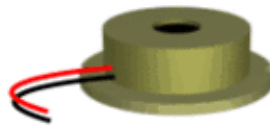


## Mikrofon, Buzzer, Hoparlör, Entegre ve Sigorta

MICROPHONE



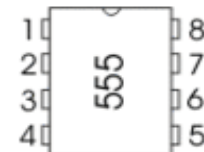
BUZZER



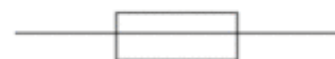
SPEAKER



IC  
INTEGRATED CIRCUIT



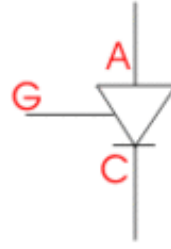
FUSE



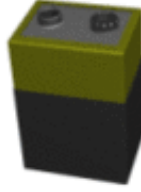
*Designed by Yüksel Akgöl*

## Tristör-Batarya-Led Diyot

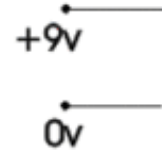
THYRISTOR



BATTERY



CELLS



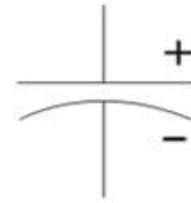
POWER RAILS

LIGHT EMITTING  
DIODE



## Elektrolitik Kondansatör-Mercimek Kondansatör-NPN ve PNP Transistör

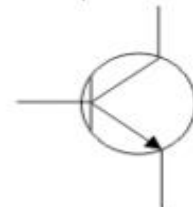
ELECTROLYTIC  
CAPACITOR



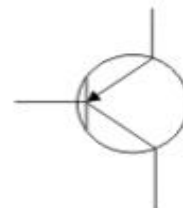
NON-ELECTROLYTIC  
CAPACITOR



NPN TRANSISTOR



PNP TRANSISTOR



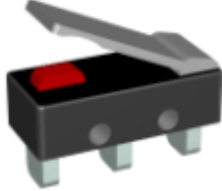
*Designed by Yüksel Akgöl*

# Switch Çeşitleri

SLIDE SWITCH



MICRO-SWITCH



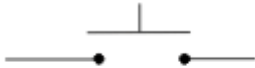
TOGGLE SWITCH



DRY REED SWITCH



PUSH SWITCH



RELAY

