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Electronics Reference Sheet v1.1b

Cathode - +
Anode

LED

Marked by color or dot

CAPACITOR

REGULATOR (e.g. LM78xx)

Vin Vout
GND

VIN VOUT
GND
EN NOISE (CAP)
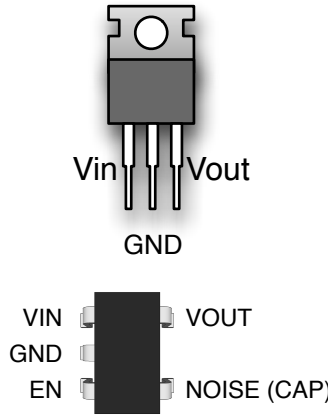
Resistor

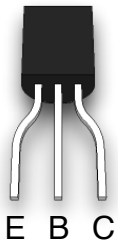|		Digit	Multiplier	Tolerance
Silver		-	0.01	±10%
Gold		-	0.1	±5%
Black		0	1	-
Brown		1	10	±1%
Red		2	100	±2%
Orange		3	1k	-
Yellow		4	10k	-
Green		5	100k	±0.5%
Blue		6	1M	±0.25%
Violet		7	10M	±0.1%
Gray		8	-	-
White		9	-	-

DIODE
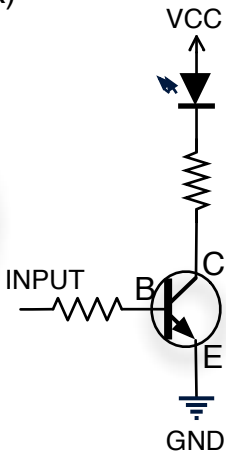
1st Digit
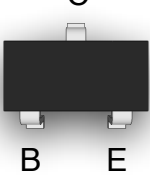2nd Digit
Multiplier
Tolerance

000
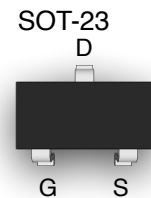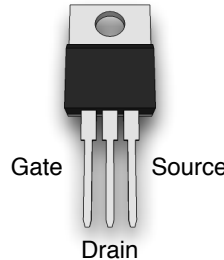1st Digit
2nd Digit
Multiplier
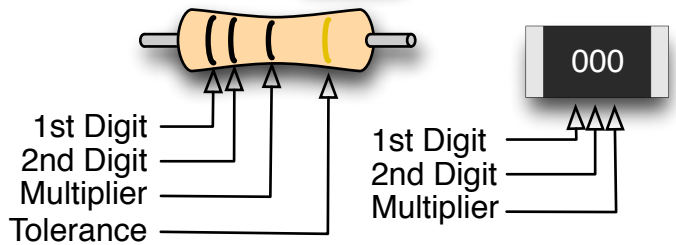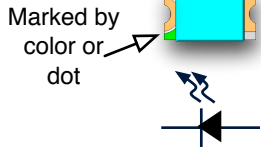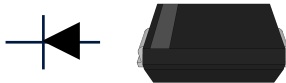
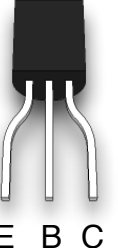**NPN transistor (Current sink)** (e.g. PN2222)

TO-92   SOT-23
C
B E
E B C

VCC
INPUT B C E
GND

N-channel MOSFET

SOT-23
D
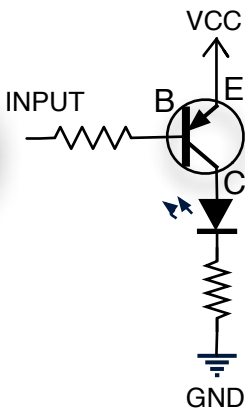G S

Gate Source
Drain

VCC
INPUT G D S
GND
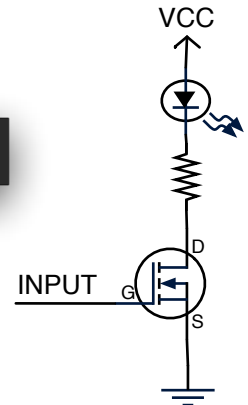
PNP transistor (Current source) (e.g. PN2907)

TO-92   SOT-23
C
B E
E B C

VCC
INPUT B E C
GND

P-channel MOSFET

Gate Source
Drain

SOT-23
D
G S

VCC
INPUT G S D
GND
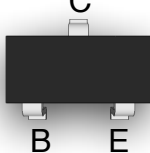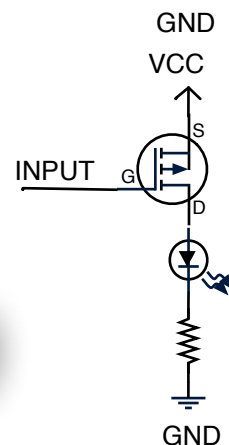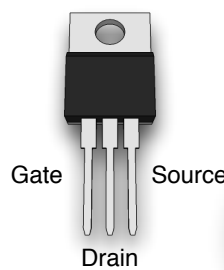
* Please note that some components may have a different pinout than the one showed above, you should always check the data sheet before using a new component.