

CSC 371 LAB MANUAL

**MPS2222A
TRANSISTOR**
NPN silicon

**MPS3904
TRANSISTOR**
NPN silicon

**2N4401
TRANSISTOR**
NPN silicon

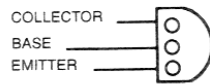
h_{FE} (min.): 50

Absolute Maximum Ratings:

V_{CE0} : 75V
 V_{CE0} : 40V
 V_{EB0} : 6V
 I_C : 600mA
 f_T : 300MHz
 Dissipation: 625mW

Applications: Designed for high-speed, medium-power switching and general-purpose amplifier applications

Pin diagram viewed from bottom



TO-92 CASE

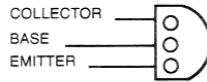
h_{FE} (min.): 100

Absolute Maximum Ratings:

V_{CE0} : 60V
 V_{CE0} : 40V
 V_{EB0} : 6V
 I_C : 200mA
 f_T : 300MHz
 Dissipation: 350mW

Applications: General-purpose saturated switching and amplifier

Pin diagram viewed from bottom



TO-92 CASE



Pin Designations
 1. Emitter
 2. Base
 3. Collector

The 2N4401 NPN silicon transistor is designed for general-purpose switching and amplifier applications.

Absolute Maximum Ratings (25° C)

Power Dissipation: 350mW
 Collector-Emitter Voltage: 40V
 Collector-Base Voltage: 60V
 Emitter-Base Voltage: 6.0V
 Collector Current: 600mA

Electrical Characteristics

h_{FE} : 100-300
 f_T : 250MHz

Cat. No.
271-1118

Radio Shack

5% TOLERANCE
**1k OHM
 RESISTORS (5)**
 1/2 watt

RESISTOR COLOR CODE

FIRST AND SECOND COLOR BAND	THIRD COLOR BAND
Black 0	Black x1
Brown 1	Brown x10
Red 2	Red x100
Orange 3	Orange x1k
Yellow 4	Yellow x10k
Green 5	Green x100k
Blue 6	Blue x1Meg
Violet 7	Silver -100
Gray 8	Gold -10
White 9	

Fourth color band: Tolerance
 Gold 5%, Silver 10%, None 20%