
Transistor Equivalent

transistor basics - ted pavlic - ece 327 [lab 1: the bipolar (junction) transistor] transistor basics 2 the ideal bipolar junction transistor because the current gain β is typically unknown or varies greatly with temperature, time, collector-emitter **2n3903, 2n3904 general purpose transistors - brown** - semiconductor components industries, llc, 2003 december, 2003 - rev. 4 1 publication order number: 2n3903/d 2n3903, 2n3904 2n3903 is a preferred device **super matched bipolar transistor pair sets new standards ...** - ti approaching theoretical noise 2 approaching theoretical noise in many low-level amplifier applications, the limiting factor on performance is noise. with bipolar transistors, the theoretical value for emitter-base voltage noise is a function only of absolute temperature **the flyback converter - university of colorado boulder** - 4 solution for the conversion ratio then leads to $m(d) = v/g = n/d$ (6) so the conversion ratio of the flyback converter is similar to that of the buck-boost converter, but contains an added factor of n . application of the principle of charge balance to the output capacitor c leads to **save on your computer as .pdf: 1-100 transistor circuits** - diagram "a" shows an npn transistor with the legs covering the symbol showing the name for each lead. the transistor is a "general purpose" type and is the smallest and cheapest type you can get. the number on the transistor will change according to the country where the circuit was designed **heat sinks - swarthmore college** - c. sauriol rev. 1/27/2003 © heat sinks page 5 c) determine the junction and case temperatures if the transistor dissipates 2w at an **mos field effect transistor 2sk3377 - datasheet catalog** - ©1999,2000 mos field effect transistor 2sk3377 switching n-channel power mos fet industrial use data sheet document no. d14328ej1v0ds00 (1st edition) date published january 2000 ns cp(k) **opax340 single-supply, rail-to-rail operational amplifiers ...** - ads7816 12-bit/d dclock opa340 d out +5v v in v+ 2 +in 3 - in 8 v ref gnd 4 serial interface 1 0.1 fm 0.1 fm 7 6 5 note:a/d input = 0 to v ref v = 0v to 5v for in 0v to 5v output. rc network filters high-frequency noise. **2n4401 general purpose transistors - on semiconductor** - 2n4401 http://onsemi 3 figure 1. turn-on time figure 2. turn-off time switching time equivalent test circuits scope rise time insulated gate bipolar transistor (igbt) basics - insulated gate bipolar transistor (igbt) basics abdu satar, ixys corporation 3 ixan0063 figure 2: equivalent circuit model of an igbt [2] based on the structure, a simple equivalent circuit model of an igbt can be drawn as **mmbt4401, smmbt4401 switching transistor** - mmbt4401, smmbt4401 onsemi 6 static characteristics figure 17. base-emitter saturation voltage vs. collector current figure 18. base-emitter turn on voltage vs. **high voltage fast-switching npn power transistor - unisonic** - mje13002 npn epitaxial silicon transistor unisonic technologies co., ltd 5 of 9 unisonic qw-r204-014.d switching times note in resistive switching circuits, rise, fall, and storage times have been defined and apply to both current and voltage **2n3904 mmbt3904 pzt3904 - npn general-purpose amplifier** - 2n3904 / mmbt3904 / pzt3904 — npn general-purpose amplifier © 2002 fairchild semiconductor corporation fairchildsemi 2n3904 / mmbt3904 / pzt3904 rev. 1.1.0 2 **toshiba transistor silicon npn triple diffused mesa type ...** - 2sd2499 5 2001-08-20 toshiba is continually working to improve the quality and reliability of its products. nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical **components and methods for current measurement - vishay** - components and methods for current measurement technical note vishay vishay dale technical note revision: 31-aug-15 2 document number: 30304 for technical questions, contact: ww2bresistors@vishay **transistor bipolaire - users.polytech.unice** - polytech elec3 6 c. peter - v 3.0 transistor bipolaire i.4 - le transistor considéré comme un quadripôle ec cc bc v1 t i1 i2 v2 e n t r é e s o r t i e le transistor ayant trois électrodes, l'une **op amp precision design: dc errors - microchip technology ...** a **designing combinational logic gates in cmos** - 200 designing combinational logic gates in cmos chapter 6 • a transistor can be thought of as a switch controlled by its gate signal. an nmos switch is on when the controlling signal is high and is off when the controlling signal is low. a pmos transistor acts as an inverse switch that is on when the controlling signal is low and off when the controlling signal is high. **slim incremental 50-mm-dia. rotary encoder e6c2-c - 2 e6c2-c ratings and specifications** note: origin indication the following illustration shows the relationship between phase z and the origin. set cut face d to the phase z origin as shown in the illustration. **determining mosfet driver needs for motor drive applications** - an898 ds00898a-page 4 2003 microchip technology inc. the base of the pnp transistor, effectively driving the device on. during turn-off, however, when the gate of **an bldc sensor - nxp semiconductors** - digital control of a bldc motor 3-phase bldc motor control with hall sensors, rev. 2.0 freescale semiconductor 3 preliminary a standard 3-phase power stage is used for the common 3-phase bldc motor, as illustrated in figure 2-3e **eb104: get 600 watts rf from four power fets - ab4oj** - archive information archive information rf application reports 1 get 600 watts rf from four power fets prepared by: helge granberg circuits engineer, ssb **resonance and tuning methods - american radio relay league** - first steps in radio resonance and tuning methods part 16: have you ever wondered how a piece of radio gear is able to tune in a particular frequency? • **basici logci gaets logic gates - ken williams home page** - 6 truth table • logic gates representation using the l tbhttt ruth table try it • draw the circuit diagrams like the ones bl below t h h to show how a nor gate can be made into a not gate. nor inverter **lt3085 - adjustable 500ma single resistor low dropout ...** - lt3085 1 3085fb typical application features

applications description adjustable 500ma single resistor low dropout regulator the lt $\text{\textcircled{R}}3085$ is a 500ma low dropout ... **impedance matching - department of physics at uf** - the quality factor q of a reactive component (inductor or a capacitor) is the ratio of its reactance magnitude to its resistance. q of an inductor: q of a capacitor: unloaded- q the loaded quality factor q | **circuit description of the ir receiver modules - Vishay** - circuit description Vishay Vishay Semiconductors rev. 1.6, 27-feb-13 2 document number: 80069 this document is subject to change without notice. the products described herein and this document **irg4bc20ud - infineon technologies** - irg4bc20ud 6 irf fig. 11 - typical switching losses vs. collector-to-emitter current fig. 12 - turn-off soa fig. 13 - maximum forward voltage drop vs. instantaneous forward current

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