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27. Reading

Transistor Datasheets

~~Transistor's~~

~~Datasheet Tutorial~~

#233 How to find

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Substitute of

MOSFET or

Transistor / SCR /

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IGBT Datasheet

How to Find
Equivalent Transistors
Mosfet / Transistor
Equivalent \u0026
Datasheet || SMD
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Subtitles ~~how to~~
~~Transistor Datasheet~~
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Datasheet

Semiconductor Cross
Reference Book Tips

On Books On how to
start building #39 How

to find Equivalent or
Substitute of

~~MOSFET or~~

~~Transistor / SCR /~~

~~IGBT Urdu / Hindi~~

~~Transistors - NPN~~

~~\u0026 PNP - Basic~~

~~Introduction~~

~~Transistor Database~~

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Android App How To
Read Antique Radio
Schematics ~~A simple
guide to electronic
components.~~

Transistor

Identification and

Testing made easy.

How to model a Diode
using a Datasheet

Tutorial-48: Encrypted

3D Components

based Circuit Design

in ADSHorizontal

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Output Transistor
testing Hindi Urdu
MOSFETs and How
to Use Them |
AddOhms #11

توت سوزن ارتل ا تي ش اتاد
C945 Datasheet,
Equivalent NTE
electronics NPN vs.
PNP Transistors as
Common-Emitter
Switches How
Transistors Work -
The Learning Circuit

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How to read transistor

Code Number Simple

Formula in Hindi

Types of transistor

Episode 5: How do I

read a datasheet?

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electronics

components How to

find equivalent

transistor easy way

~~Playing with~~

~~Transistors: NPN~~

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~~2N3904 Transistor~~

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Datasheet. BJT;
MOSFET; IGBT;
SCR; SMD CODE;
PACKAGES; APPS
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& TRIAC. Datasheet.
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& TRIAC. Datasheet.~~

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TIP3055T Datasheet,
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Type Designator:

TIP3055T. Material of
Transistor: Si.

Polarity: NPN.

Maximum Collector
Power Dissipation
(Pc): 75 W. Maximum
Collector-Base

Voltage |Vcb|: 70 V.

Maximum Collector-

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Emitter Voltage $|V_{ce}|$:
60 V. Maximum
Emitter-Base Voltage
 $|V_{eb}|$: 5 V. Maximum
Collector Current $|I_{c \text{ max}}|$: 10 A.

~~TIP3055T Datasheet,
Equivalent, Cross
Reference Search ...~~

C3198 Datasheet,
Equivalent, Cross
Reference Search.

Type Designator:

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C3198 Material of Transistor: Si Polarity: NPN Maximum Collector Power Dissipation (P_c): 0.625 W. Maximum Collector-Base Voltage $|V_{cb}|$: 60 V. Maximum Collector-Emitter Voltage $|V_{ce}|$: 50 V. Maximum Emitter-Base Voltage $|V_{eb}|$: 5 V. Maximum Collector Current $|I_c$

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max|: 0.15 A.Max.

~~C3198 Datasheet,
Equivalent, Cross
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104NU71 Datasheet,
Equivalent, Cross
Reference Search.

Type Designator:
104NU71 Material of
Transistor: Ge

Polarity: NPN

Maximum Collector
Power Dissipation

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(Pc): 0.125 W.

Maximum Collector-
Base Voltage |Vcb|:
20 V. Maximum

Collector-Emitter
Voltage |Vce|: 20 V.

Maximum Collector
Current |Ic max|: 0.25

A. Max. Operating
Junction Temperature
(Tj): 75 °C

~~104NU71 Datasheet,
Equivalent, Cross~~

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~~Reference Search~~ ...

3DK104D Datasheet,
Equivalent, Cross
Reference Search.

Type Designator:

3DK104D Material of
Transistor: Si Polarity:

NPN Maximum

Collector Power

Dissipation (P_c): 10

W. Maximum

Collector-Base

Voltage $|V_{cb}|$: 150 V.

Maximum Collector-

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Emitter Voltage $|V_{ce}|$:
110 V. Maximum
Emitter-Base Voltage
 $|V_{eb}|$: 4 V. Maximum
Collector Current $|I_{c \text{ max}}|$: 3 A. Max.

~~3DK104D Datasheet,
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2SD1762 Transistor
Datasheet pdf,
2SD1762 Equivalent.
Parameters and

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Characteristics. All
Transistors. 2SD1762
Datasheet. BJT;
MOSFET; IGBT;
SCR; SMD CODE;
PACKAGES; ...

2SD1762 Transistor
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~~2SD1762 Datasheet,~~
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Reference~~
BFP196W Datasheet
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bfp196w.pdf Size:60K

_siemens □ BFP 196W

NPN Silicon RF

Transistor □ For low

noise, low distortion

broadband amplifiers

in antenna and

telecommunications

systems up to 1.5GHz

at collector currents

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from 20mA to 80mA □

Power amplifier for
DECT and PCN
systems □ fT =

7.5GHz F = 1.5 dB at
900MHz ESD:

Electrostatic
discharge sensitive
device, observe
handling ...

~~BFP196W Datasheet,
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MRF2628 Datasheet, Equivalent, Cross Reference Search.

Type Designator:

MRF2628. Material of Transistor: Si.

Polarity: NPN.

Maximum Collector Power Dissipation (Pc): 40 W. Maximum Collector-Base

Voltage |Vcb|: 36 V.

Maximum Collector-Emitter Voltage |Vce|:

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18 V. Maximum
Emitter-Base Voltage
 $|V_{eb}|$: 4 V. Maximum
Collector Current $|I_{c \max}|$: 2.5 A.

~~MRF2628 Datasheet,
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PH1090-15L
Datasheet (PDF) 0.1.
ph1090-15l.pdf
Size:145K _macom
☐PH1090-15L

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Avionics Pulsed
Power Transistor
Released, 30 May 07
15W, 1030-1090
MHz, 250 μ s Pulse,
10% Duty Features
Outline Drawing □
NPN silicon
microwave power
transistors □ Common
base configuration □
Broadband Class C
operation □ High
efficiency inter-

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digitized geometry □
Diffused emitter
ballasting resistors ...

~~PH1090-15L~~

~~Datasheet,
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MH0810 Datasheet,
Equivalent, Cross
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Type Designator:
MH0810 Material of
Transistor: Si Polarity:

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PNP Maximum
Collector Power
Dissipation (P_c): 12 W

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month all around the
world. - More than
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TRANSISTOR
CROSS-

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Corporation. SEMI-C
ONDUCTOR/TRANSI
STOR CROSS-

REFERENCE LIST

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Corporation.

ORIGINAL IN-
HOUSE NUMBER
ALTERNATE IN-
HOUSE NUMBER
FIELD

REPLACEMENT

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NUMBER ORDER

NUMBER NOTES.

TO-92

TRANSISTORS.

2N3391(A)

SPS-953(A, B)

MPS-8097, 2N6520

MPS-A18, 2N6539,

SK-3919 OBSOLETE

70403919 LEAD

CONFIG.

~~SEMI-CONDUCTOR/~~

~~TRANSISTOR~~

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~~CROSS-SHEET~~
~~REFERENCE LIST~~
~~Peavey ...~~

As I have read tons of postings here, I keep reading about the 2N3055 and trying to find a solid replacement. So I thought it might be a good idea to have a single posting, dedicated to this one transistor. I have

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I looked at several datasheets and tried to identify differences in specs, from one manufacturer to another. But that is hard to do.

~~Transistor
Replacement Cross
Reference &
Counterfeits ...~~

To make electronic
component purchaser

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and engineers find substitutes earlier , Hotenda Technology specially developed electronic components cross reference search engine and provid : transistor cross reference, semiconductor cross reference, transistors cross reference guide, ic cross reference,

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siemens cross
reference, bussmann
/ siba fuse / diode /
texas instruments
cross reference.

~~Cross Reference Guide~~

~~semiconductor /
transistor / diode ...~~

BC547 Equivalent
Transistors BC549,
BC636, BC639,
2N2222 TO-92,

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2N2222 TO-18,
2N2369, 2N3055,
2N3904, 2N3906,
2SC5200 Brief

Description on BC547

BC547 is a NPN
transistor hence the
collector and emitter
will be left open

(Reverse biased)

when the base pin is
held at ground and
will be closed

(Forward biased)

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when a signal is provided to base pin.

~~BC547 Transistor:
Pinout, Diagrams,
Equivalents &
Datasheet~~

Special feature transistors - An extensive portfolio of transistors with special features. When your application demands a transistor

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with special features such as low-noise, Darlington pair, medium-frequency operation, matched pair, Schmitt-trigger input etc., check out our portfolio for all the options.

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They will also include the environmentally

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related parameters, and the physical parameters. All these need to be taken into account when choosing a suitable replacement transistor. BC547 Plastic leaded transistor Looking at the basic transistor parameters.

Fortunately many transistors used in

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Electronic circuit
design are general
purpose types.

Reference Search

Cellular telephones,
satellite
communications and
radar systems are
adding to the
increasing demand for

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radio frequency circuit design principles. At the same time, several generations of digitally-oriented graduates are missing the essential RF skills. This book contains a wealth of valuable design information difficult to find elsewhere. It's a complete 'tool kit' for successful RF circuit

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design. Written by experienced RF design engineers from Motorola's semiconductors product section. Book covers design examples of circuits (e.g. amplifiers; oscillators; switches; pulsed power; modular systems; wiring state-of-the-art devices; design

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techniques).
Cross
Reference

This book gathers
selected research
papers presented at
the First International
Conference on Digital
Technologies and
Applications (ICDTA
21), held at Sidi
Mohamed Ben
Abdellah University,

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Fez, Morocco, on
29-30 January 2021.
highlighting the latest
innovations in digital
technologies as:
artificial intelligence,
Internet of things,
embedded systems,
network technology,
information
processing, and their
applications in several
areas such as hybrid
vehicles, renewable

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energy, robotic, and COVID-19. The respective papers encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

An up-to-date, practical guide on upgrading from silicon to GaN, and how to

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Use GaN transistors in power conversion systems design This updated, third edition of a popular book on GaN transistors for efficient power conversion has been substantially expanded to keep students and practicing power conversion engineers ahead of the learning

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curve in GaN technology advancements.

Acknowledging that GaN transistors are not one-to-one replacements for the current MOSFET technology, this book serves as a practical guide for understanding basic GaN transistor construction,

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Characteristics, and applications. Included are discussions on the fundamental physics of these power semiconductors, layout, and other circuit design considerations, as well as specific application examples demonstrating design techniques when

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employing GaN devices. GaN Transistors for Efficient Power Conversion, 3rd Edition brings key updates to the chapters of Driving GaN Transistors; Modeling, Simulation, and Measurement of GaN Transistors; DC-DC Power Conversion; Envelope

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Tracking; and Highly Resonant Wireless Energy Transfer. It also offers new chapters on Thermal Management, Multilevel Converters, and Lidar, and revises many others throughout. Written by leaders in the power semiconductor field and industry pioneers in GaN power

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transistor technology
and applications

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new material,

including three new
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Management,
Multilevel Converters,
Wireless Power, and
Lidar Features

practical guidance on
formulating specific
circuit designs when
constructing power

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learning tool and reference guide that enables power conversion engineers to design energy-efficient, smaller, and more cost-effective products using GaN transistors.

This completely updated reference book is a must for every technician's

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library. With more than 490,000 part numbers, type numbers, and other identifying numbers listed, technicians will have no problem locating the replacement or substitution information they need. The "Semiconductor Cross Reference Book" is four cross

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references in one, including replacement information for NTE, ECG, Radio Shack, and TCE. It also includes an up-to-date listing of original equipment manufacturers.

The operational amplifier ("op amp") is the most versatile and widely used type of

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analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level

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tutorial and reference
to operational
amplifier theory and
applications. Among
the topics covered are
basic op amp physics
(including reviews of
current and voltage
division, Thevenin's
theorem, and
transistor models),
idealized op amp
operation and
configuration,

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feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level

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Datasheets, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components.

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The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp

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theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in

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detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

Praise for CMOS:

Page 63/76

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Circuit Design,
Layout, and
Simulation Revised
Second Edition from
the Technical
Reviewers "A
refreshing industrial
flavor. Design
concepts are
presented as they are
needed for 'just-in-
time' learning.
Simulating and
designing circuits

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using SPICE is emphasized with literally hundreds of examples. Very few textbooks contain as much detail as this one. Highly recommended!"

--Paul M. Furth, New Mexico State University "This book builds a solid knowledge of CMOS circuit design from the

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ground up. With coverage of process integration, layout, analog and digital models, noise mechanisms, memory circuits, references, amplifiers, PLLs/DLLs, dynamic circuits, and data converters, the text is an excellent reference for both experienced and novice designers

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alike." --Tyler J. Gomm, Design Engineer, Micron Technology, Inc. "The Second Edition builds upon the success of the first with new chapters that cover additional material such as oversampled converters and non-volatile memories. This is becoming the de facto standard

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textbook to have on every analog and mixed-signal designer's bookshelf."

--Joe Walsh, Design Engineer, AMI Semiconductor
CMOS circuits from design to implementation
CMOS: Circuit Design, Layout, and Simulation, Revised Second Edition

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Covers the practical design of both analog and digital integrated circuits, offering a vital, contemporary view of a wide range of analog/digital circuit blocks, the BSIM model, data converter architectures, and much more. This edition takes a two-path approach to the topics: design

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techniques are developed for both long- and short-channel CMOS technologies and then compared. The results are multidimensional explanations that allow readers to gain deep insight into the design process. Features include: Updated materials to

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reflect CMOS
technology's
movement into
nanometer sizes

Discussions on
phase- and delay-
locked loops, mixed-
signal circuits, data
converters, and circuit
noise More than
1,000 figures, 200
examples, and over
500 end-of-chapter
problems In-depth

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Coverage of both analog and digital circuit-level design techniques Real-world process parameters and design rules The book's Web site, CMOSedu.com, provides: solutions to the book's problems; additional homework problems without solutions; SPICE simulation examples

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using HSPICE,
LTspice, and
WinSpice; layout tools
and examples for
actually fabricating a
chip; and videos to
aid learning

This book is essential
for audio power
amplifier designers
and engineers for one
simple reason...it
enables you as a

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professional to develop reliable, high-performance circuits. The Author Douglas Self covers the major issues of distortion and linearity, power supplies, overload, DC-protection and reactive loading. He also tackles unusual forms of compensation and distortion produced by

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capacitors and fuses.

This completely updated fifth edition includes four NEW chapters including one on The XD Principle, invented by the author, and used by Cambridge Audio. Crosstalk, power amplifier input systems, and microcontrollers in amplifiers are also

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now discussed in this fifth edition, making this book a must-have for audio power amplifier professionals and audiophiles.

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