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Product Information

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BC546; BC547; NPN general purpose transistors

Information as of
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General description

NPN transistor in a TO-92; SOT54 plastic package.
PNP complements: BC556 and BC557.

Features

- Low current (max. 100 mA)
- Low voltage (max. 65 V).

Applications

- General purpose switching and amplification.

[PDF AN00033_1: CM433 autosync monitor](#) (date 17-May-00)

[PDF AN00057_1: ECO-monitor](#) (date 08-Nov-00)

[AN10116_2: Breakthrough In Small Signal - Low \$V_{CEsat}\$ \(BISS\) Transistors and their Appli](#)
Aug-02)

[PDF AN95004_1: I²C Control Boards for Large Screen Monitors](#) (date 16-Aug-95)

Datasheet

| Type number | Title | Publication release date | Datasheet status | Page count | File size (kB) |
|-----------------|---------------------------------|--------------------------|-----------------------|------------|----------------|
| BC546; BC547 | NPN general purpose transistors | 15-Apr-99 | Product specification | 8 | 53 |

Parametrics

| Type number | Package | hFE min | hFE max | fT min (MHz) | POLARITY | I _c max (mA) | VCEO max(V) | Ptot max (mW) |
|-------------|-------------------------------------|---------|---------|--------------|----------|-------------------------|-------------|---------------|
| BC546A | SOT54 (SPT, E-1) | 110 | 220 | 100 | NPN | 100 | 65 | 500 |
| BC546B | SOT54 (SPT, E-1) | 200 | 450 | 100 | NPN | 100 | 65 | 500 |
| BC547 | SOT54 (SPT, E-1) | 110 | 800 | 100 | NPN | 100 | 45 | 500 |
| BC547B | SOT54 (SPT, E-1) | 200 | 450 | 100 | NPN | 100 | 45 | 500 |

BC547C [SOT54](#) 420 800 100 NPN 100 45 500
(SPT, E-1)

Products, packages, availability and ordering

| Type number | North American type number | Ordering code (12NC) | Marking/Packing PDF Discretes packing info | Package | Device status |
|-------------|----------------------------|----------------------|--|-------------------------------------|-----------------|
| BC546A | | 9332 377 70112 | Standard Marking * Bulk Pack | SOT54 (SPT; E-1) | Full production |
| | | 9332 377 70126 | Standard Marking * Ammopack, Radial | SOT54 (SPT; E-1) | Full production |
| BC546B | | 9332 377 80112 | Standard Marking * Bulk Pack | SOT54 (SPT; E-1) | Full production |
| | BC546B T/R | 9332 377 80116 | Standard Marking * Reel Pack, Radial | SOT54 (SPT; E-1) | Full production |
| | BC546B AMO | 9332 377 80126 | Standard Marking * Ammopack, Radial | SOT54 (SPT; E-1) | Full production |
| BC547 | | 9331 976 10112 | Standard Marking * Bulk Pack | SOT54 (SPT; E-1) | Full production |
| | BC547 T/R | 9331 976 10116 | Standard Marking * Reel Pack, Radial | SOT54 (SPT; E-1) | Full production |
| | | 9331 976 10126 | Standard Marking * Ammopack, Radial | SOT54 (SPT; E-1) | Full production |
| BC547B | BC547B | 9331 976 30112 | Standard Marking * Bulk Pack | SOT54 (SPT; E-1) | Full production |
| | BC547B T/R | 9331 976 30116 | Standard Marking * Reel Pack, Radial | SOT54 (SPT; E-1) | Full production |
| | | 9331 976 30126 | Standard Marking * Ammopack, Radial | SOT54 (SPT; E-1) | Full production |
| | | 9331 976 30412 | Standard Marking * Bulk Pack, Straight Leads (TO-92) | SOT54 (SPT; E-1) | Full production |
| BC547C | BC547C | 9332 377 90112 | Standard Marking * Bulk Pack | SOT54 (SPT; E-1) | Full production |
| | BC547C T/R | 9332 377 90116 | Standard Marking * Reel Pack, Radial | SOT54 (SPT; E-1) | Full production |
| | BC547C AMO | 9332 377 90126 | Standard Marking * Ammopack, Radial | SOT54 (SPT; E-1) | Full production |

Products in the above table are all in production. Some variants are discontinued; [click h](#) on these variants.

Similar products

[➔ MORE](#) [BC546; BC547](#) links to the similar products page containing an overview of products in function or related to the type number(s) as listed on this page. The similar products page contains products from the same catalog tree(s), relevant selection guides and products from the category.

Support & tools

[Spice model of BC546A](#)

[Spice model of BC546B](#)

[Spice model of BC547B](#)

[Spice model of BC547C](#)

[➔ PDF](#) [General Application Products 2000 / 2001](#) (date 01-Oct-20)

[➔ PDF](#) [Letter Symbols - Transistors General](#) (date 01-May-99)

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