NPN High Voltage Amplifier

This device is designed for application as a video output to drive color CRT and other high voltage applications. Sourced from Process 48.

Absolute Maximum Ratings*  \( TA = 25^\circ C \) unless otherwise noted

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>( V_{CES} )</td>
<td>Collector-Emitter Voltage</td>
<td>300</td>
<td>V</td>
</tr>
<tr>
<td>( V_{CBO} )</td>
<td>Collector-Base Voltage</td>
<td>300</td>
<td>V</td>
</tr>
<tr>
<td>( V_{EBO} )</td>
<td>Emitter-Base Voltage</td>
<td>6.0</td>
<td>V</td>
</tr>
<tr>
<td>( I_C )</td>
<td>Collector Current - Continuous</td>
<td>500</td>
<td>mA</td>
</tr>
<tr>
<td>( T_J, T_{stg} )</td>
<td>Operating and Storage Junction Temperature Range</td>
<td>-55 to +150</td>
<td>°C</td>
</tr>
</tbody>
</table>

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

NOTES:
1) These ratings are based on a maximum junction temperature of 150 degrees C.
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics  \( TA = 25^\circ C \) unless otherwise noted

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Characteristic</th>
<th>MPSA42</th>
<th>*MMBTA42</th>
<th>**PZTA42</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>( P_D )</td>
<td>Total Device Dissipation</td>
<td>625</td>
<td>350</td>
<td>1,000</td>
<td>mW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Derate above 25°C</td>
<td>5.0</td>
<td>2.8</td>
<td>8.0</td>
<td>mW/°C</td>
<td></td>
</tr>
<tr>
<td>( R_{HJC} )</td>
<td>Thermal Resistance, Junction to Case</td>
<td>83.3</td>
<td></td>
<td></td>
<td>°C/W</td>
<td></td>
</tr>
<tr>
<td>( R_{HJA} )</td>
<td>Thermal Resistance, Junction to Ambient</td>
<td>200</td>
<td>357</td>
<td>125</td>
<td>°C/W</td>
<td></td>
</tr>
</tbody>
</table>

* Device mounted on FR-4 PCB 1.6" X 1.6" X 0.06.*
** Device mounted on FR-4 PCB 36 mm X 18 mm X 1.5 mm; mounting pad for the collector lead min. 6 cm².
## Electrical Characteristics

**TA = 25°C unless otherwise noted**

### OFF CHARACTERISTICS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Min</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_{BR(CEO)}$</td>
<td>Collector-Emitter Breakdown Voltage*</td>
<td>$I_C = 1.0 , \text{mA}, , I_B = 0$</td>
<td>300</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>$V_{BR(CBO)}$</td>
<td>Collector-Base Breakdown Voltage</td>
<td>$I_C = 100 , \mu\text{A}, , I_E = 0$</td>
<td>300</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>$V_{BR(EBO)}$</td>
<td>Emitter-Base Breakdown Voltage</td>
<td>$I_E = 100 , \mu\text{A}, , I_C = 0$</td>
<td>6.0</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>$I_{CBO}$</td>
<td>Collector-Cutoff Current</td>
<td>$V_{CB} = 200 , \text{V}, , I_E = 0$</td>
<td>0.1</td>
<td></td>
<td>$\mu\text{A}$</td>
</tr>
<tr>
<td>$I_{EBO}$</td>
<td>Emitter-Cutoff Current</td>
<td>$V_{EB} = 6.0 , \text{V}, , I_C = 0$</td>
<td>0.1</td>
<td></td>
<td>$\mu\text{A}$</td>
</tr>
</tbody>
</table>

### ON CHARACTERISTICS*

| $h_{FE}$ | DC Current Gain | $I_C = 1.0 \, \text{mA}, V_{CE} = 10 \, \text{V}$ | 25  |      |       |
|          |                 | $I_C = 10 \, \text{mA}, V_{CE} = 10 \, \text{V}$ | 40  |      |       |
|          |                 | $I_C = 30 \, \text{mA}, V_{CE} = 10 \, \text{V}$ | 40  |      |       |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C = 20 \, \text{mA}, \, I_B = 2.0 \, \text{mA}$ | 0.5 |      | V     |
| $V_{BE(sat)}$ | Base-Emitter Saturation Voltage | $I_C = 20 \, \text{mA}, \, I_B = 2.0 \, \text{mA}$ | 0.9 |      | V     |

### SMALL SIGNAL CHARACTERISTICS

| $f_T$ | Current Gain - Bandwidth Product | $I_C = 10 \, \text{mA}, V_{CE} = 20 \, \text{V}, \, f = 100 \, \text{MHz}$ | 50  |      | MHz   |
| $C_{cb}$ | Collector-Base Capacitance | $V_{CB} = 20 \, \text{V}, \, I_E = 0, \, f = 1.0 \, \text{MHz}$ | 3.0 |      | pF    |

*Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2.0%

### Spice Model

NPN (Is=34.9f A, Xti=3 €g=1.11 Vaf=100 Bf=2.65K Ne=1.708 Ise=16.32p Ikf=23.79m XItb=1.5 Br=9.769 Nc=2 IsC=0 Ikr=0 Rc=7 Cjc=14.23p Mjc=.5489 Vjc=.75 Fc=.5 Cje=49.62p Mje=.4136 Vje=.75 Tr=934.3p Tf=1.69n If=5 Vtf=20 Xtf=150 Rb=10)

### Typical Characteristics

#### DC Current Gain vs Collector Current

<table>
<thead>
<tr>
<th>$h_{FE}$ - DC Current Gain</th>
<th>$V_{CE} = 5 , \text{V}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$I_C$ - Collector Current (mA)</td>
<td>0.1</td>
</tr>
<tr>
<td>1.0</td>
<td>1.2</td>
</tr>
</tbody>
</table>

#### Collector-Emitter Saturation Voltage vs Collector Current

<table>
<thead>
<tr>
<th>$V_{CE(sat)}$</th>
<th>$I_C$ - Collector Current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_{CE} = 5 , \text{V}$</td>
<td>0.1</td>
</tr>
<tr>
<td>0.005</td>
<td>0.01</td>
</tr>
</tbody>
</table>

| $I_C$ - Collector Current (mA) | 0.1 | 1 | 10 | 100 |
|-----------------------------|-----------------|
| 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 |
Typical Characteristics

**Base-Emitter Saturation Voltage vs Collector Current**

**Base-Emitter ON Voltage vs Collector Current**

**Collector-Cut off Current vs Ambient Temperature**

**Collector-Base and Emmitter-Base Capacitance vs Reverse Bias Voltage**

**Power Dissipation vs Ambient Temperature**
TO-92 Tape and Reel Data

TO-92 Packaging
Configuration: Figure 1.0

TO-92 TNR/AMMO PACKING INFORMATION

<table>
<thead>
<tr>
<th>Packing Style</th>
<th>Quantity</th>
<th>EOL code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reel A</td>
<td>2,000</td>
<td>D6Z</td>
</tr>
<tr>
<td>E</td>
<td>2,000</td>
<td>D7Z</td>
</tr>
<tr>
<td>Ammo M</td>
<td>2,000</td>
<td>D7Z</td>
</tr>
<tr>
<td>P</td>
<td>2,000</td>
<td>D7Z</td>
</tr>
</tbody>
</table>

Unit weight (Reel) = 0.8 gm
Unit weight (Ammo) = 1.04 kg
Max quantity per intermediate box = 10,000 units

(530mm x 130mm x 83mm) Intermediate Box

BULK OPTION
See Bulk Packing Information table

TO-92 TAPE and REEL OPTION
See Fig 2.0 for various Reeling Styles

5 Reels per Intermediate Box

375mm x 267mm x 375mm Intermediate Box

AMMO PACK OPTION
See Fig 3.0 for 2 Ammo Pack Options

5 Ammo boxes per Intermediate Box

333mm x 231mm x 183mm Intermediate Box

LOT: CBVK741B019
NSID: PN2222N
D/C1: D9842
SPEC REV: B2
SPEC: QTY: 10000
QA REV: FAIRCHILD SEMICONDUCTOR CORPORATION

Lot: CBVK741B019
FSID: PN222N
D/C1: D9842
QTY: 2000
CPN: N/F (F63TNR)

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March 2001, Rev. B1
TO-92 Tape and Reel Data, continued

TO-92 Reeling Style Configuration: Figure 2.0

Machine Option “A” (H)

Style “A”, D26Z, D70Z (s/h)

First wire off is emitter
Adhesive tape is on the top side
Flat of transistor is on bottom

Machine Option “E” (J)

Style “E”, D27Z, D71Z (s/h)

First wire off is emitter
Adhesive tape is on the top side
Flat of transistor is on bottom

TO-92 Radial Ammo Packaging Configuration: Figure 3.0

First wire off is collector
Adhesive tape is on the bottom side
Flat of transistor is on top

First wire off is emitter
Adhesive tape is on the top side
Flat of transistor is on bottom

Order Style D74Z (M)

First wire off is emitter (on pkg. 92)
Adhesive tape is on bottom side
Flat of transistor is on bottom

Order Style D75Z (P)

First wire off is collector (on pkg. 92)
Adhesive tape is on bottom side
Flat of transistor is on top
TO-92 Tape and Reel Data, continued

TO-92 Tape and Reel Taping
Dimension Configuration: Figure 4.0

TO-92 Reel
Configuration: Figure 5.0

Note: All dimensions are in inches.

July 1999, Rev. A
TO-92 Package Dimensions

TO-92 (FS PKG Code 92, 94, 96)

Scale 1:1 on letter size paper
Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 0.1977
SOT-23 Tape and Reel Data

SOT-23 Packaging

Configuration: Figure 10

Packaging Description:
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon-filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature primarily composed of polystyrene film, adhesive layer, sealant, and anti-static sprayed agent). These reel-packed parts in standard option are shipped with 3,000 units per 7" or 177cm diameter reel. The reels are dark blue in color and made of polystyrene plastic anti-static coated. Other option comes in 10,000 units per 13" or 330cm diameter reel. This and some other options are described in the Packaging Information table.

These full reels are individually labeled and placed inside a standard intermediate made of recyclable corrugated brown paper with a Fairchild logo print. One pizza box contains eight reels maximum. And these intermediate boxes are placed inside a labeled shipping box which comes in different sizes depending on the number of parts shipped.

SOT-23 Unit Orientation

343mm x 342mm x 64mm Intermediate box for L87Z Option

SOT-23 Tape and Reel Data

<table>
<thead>
<tr>
<th>Packaging Option</th>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging Type</td>
<td>TNR</td>
<td>TNR</td>
</tr>
<tr>
<td>Qty per Reel/Tube/Bag</td>
<td>3000</td>
<td>10000</td>
</tr>
<tr>
<td>Reel Diameter (mm)</td>
<td>7.62</td>
<td>13.02</td>
</tr>
<tr>
<td>Box Dimension (mm)</td>
<td>167x107x183</td>
<td>343x343x64</td>
</tr>
<tr>
<td>Max qty per Box</td>
<td>24000</td>
<td>30000</td>
</tr>
<tr>
<td>Weight per unit (g)</td>
<td>0.0082</td>
<td>0.0082</td>
</tr>
<tr>
<td>Weight per Reel (kg)</td>
<td>0.1775</td>
<td>0.4006</td>
</tr>
</tbody>
</table>

Note/Comments

Human Readable Label sample

343mm x 342mm x 64mm Intermediate box for L87Z Option

Human Readable Label sample

343mm x 342mm x 64mm Intermediate box for Standard Option

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September 1999, Rev. C
### SOT-23 Tape and Reel Data, continued

**SOT-23 Embossed Carrier Tape**

**Configuration: Figure 3.0**

![Diagram of SOT-23 Configuration](image)

#### Dimensions are in millimeter

<table>
<thead>
<tr>
<th>Pkg type</th>
<th>A0</th>
<th>B0</th>
<th>W</th>
<th>D0</th>
<th>D1</th>
<th>E1</th>
<th>E2</th>
<th>F</th>
<th>P1</th>
<th>P0</th>
<th>K0</th>
<th>T</th>
<th>Wc</th>
<th>Tc</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOT-23 (8mm)</td>
<td>1.15 +0.10</td>
<td>2.77 +0.10</td>
<td>8.0 +/-0.3</td>
<td>1.55 +0.05</td>
<td>1.125 +0.125</td>
<td>1.75 +/-0.10</td>
<td>6.25 +/-0.05</td>
<td>3.50 +/-0.05</td>
<td>4.0 +/-0.1</td>
<td>4.0 +/-0.1</td>
<td>1.35 +/-0.10</td>
<td>0.238 +/-0.013</td>
<td>5.2 +0.3</td>
<td>0.06 +/-0.02</td>
</tr>
</tbody>
</table>

Notes: A0, B0, and K0 dimensions are determined with respect to the EIA/Jedec RS-481 rotational and lateral movement requirements (see sketches A, B, and C).

20 deg maximum component rotation

Sketch A (Side or Front Sectional View)

Component Rotation

Sketch B (Top View)

Component Rotation

Sketch C (Top View)

Component lateral movement

**SOT-23 Reel Configuration: Figure 4.0**

![Diagram of SOT-23 Reel Configuration](image)

#### Dimensions are in inches and millimeters

<table>
<thead>
<tr>
<th>Tape Size</th>
<th>Reel Option</th>
<th>Dim A</th>
<th>Dim B</th>
<th>Dim C</th>
<th>Dim D</th>
<th>Dim N</th>
<th>Dim W1</th>
<th>Dim W2</th>
<th>Dim W3 (LSL-USL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8mm</td>
<td>7&quot; Dia</td>
<td>7.00</td>
<td>0.059</td>
<td>0.952</td>
<td>0.030</td>
<td>0.008</td>
<td>0.315</td>
<td>0.231</td>
<td>0.059</td>
</tr>
<tr>
<td>8mm</td>
<td>13&quot; Dia</td>
<td>13.00</td>
<td>0.059</td>
<td>0.952</td>
<td>0.030</td>
<td>0.008</td>
<td>0.315</td>
<td>0.231</td>
<td>0.059</td>
</tr>
</tbody>
</table>

September 1999, Rev. C
SOT-23 Package Dimensions

SOT-23 (FS PKG Code 49)

Dimensions shown below are in:

- inches [millimeters]

Part Weight per unit (gram): 0.0082

NOTE: UNLESS OTHERWISE SPECIFIED

1. STANDARD LEAD FINISH: 150 MICROINCHES / 3.81 MICROMETERS
   MINIMUM TIN / LEAD (SOLDER) ON ALLOY 42

2. REFERENCE: JEDEC REGISTRATION TO-236, VARIATION AB, ISSUE G, DATED JUL 1993
SOT-223 Tape and Reel Data

**SOT-223 Packaging Configuration:** Figure 1.0

- **Components**
  - **Leader Tape**
    - Minimum: 500mm or 62 empty pockets
  - **Trailer Tape**
    - Minimum: 300mm or 38 empty pockets

**SOT-223 Tape Leader and Trailer Configuration:** Figure 2.0

- **Components**
  - **Carrier Tape**
  - **Cover Tape**
  - **Antistatic Cover Tape**
  - **Static Dissipative Embossed Carrier Tape**

**Packaging Description:**

SOT-223 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polymer film, adhesive layer, wax, and antistatic sprayed agent. These reeled parts in standard option are shipped with 2,500 units per 13” or 330cm diameter reel. The reels are dark blue in color and is made of polystyrene plastic (anti-static coated). Other option comes in 500 units per 7” or 177cm diameter reel. This and some other options are further described in the Packaging Information table.

These full reels are individually barcode labeled and placed inside a standard intermediate box (illustrated in figure 1.0) made of recyclable corrugated brown paper. One box contains two reels maximum. And these boxes are placed inside a barcode labeled shipping box which comes in different sizes depending on the number of parts shipped.

**SOT-223 Unit Orientation**

- **F63TNR Label**
- **Antistatic Cover Tape**

**SOT-223 Tape and Reel Data**

<table>
<thead>
<tr>
<th>SOT-223 Packaging Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Packaging Option</strong></td>
</tr>
<tr>
<td><strong>Packaging type</strong></td>
</tr>
<tr>
<td><strong>Qty per Reel/Tube/Bag</strong></td>
</tr>
<tr>
<td><strong>Reel Size</strong></td>
</tr>
<tr>
<td><strong>Box Dimension (mm)</strong></td>
</tr>
<tr>
<td><strong>Max qty per Box</strong></td>
</tr>
<tr>
<td><strong>Weight per unit (gm)</strong></td>
</tr>
<tr>
<td><strong>Weight per Reel (kg)</strong></td>
</tr>
</tbody>
</table>

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September 1999, Rev. B
SOT-223 Tape and Reel Data, continued

SOT-223 Embossed Carrier Tape Configuration: Figure 3.0

Dimensions are in millimeter

<table>
<thead>
<tr>
<th>Pkg type</th>
<th>A0</th>
<th>B0</th>
<th>W</th>
<th>D0</th>
<th>D1</th>
<th>E0</th>
<th>E2</th>
<th>F</th>
<th>P0</th>
<th>P1</th>
<th>K0</th>
<th>T</th>
<th>Wc</th>
<th>Tc</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOT-223 (12mm)</td>
<td>6.83</td>
<td>7.42</td>
<td>12.0</td>
<td>1.55</td>
<td>1.75</td>
<td>10.25</td>
<td>5.50</td>
<td>9.0</td>
<td>4.0</td>
<td>1.68</td>
<td>0.292</td>
<td>5.50</td>
<td>1.75</td>
<td></td>
</tr>
</tbody>
</table>

Notes: A0, B0, and K0 dimensions are determined with respect to the EIA/Jedec RS-481 rotational and lateral movement requirements (see sketches A, B, and C).

SOT-223 Reel Configuration: Figure 4.0

Dimensions are in inches and millimeters

<table>
<thead>
<tr>
<th>Tape Size</th>
<th>Reel Option</th>
<th>Dim A</th>
<th>Dim B</th>
<th>Dim C</th>
<th>Dim D</th>
<th>Dim N</th>
<th>Dim W1</th>
<th>Dim W2</th>
<th>Dim W3 (LSL-USL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>7” Dia</td>
<td>0.059</td>
<td>0.15</td>
<td>0.020-0.026</td>
<td>0.075</td>
<td>0.0498-0.0795-0.0002</td>
<td>0.724</td>
<td>0.489-0.606</td>
<td>11.2-15.4</td>
</tr>
<tr>
<td>12mm</td>
<td>13” Dia</td>
<td>0.059</td>
<td>0.15</td>
<td>0.020-0.026</td>
<td>0.075</td>
<td>0.0498-0.0795-0.0002</td>
<td>0.724</td>
<td>0.489-0.606</td>
<td>11.2-15.4</td>
</tr>
</tbody>
</table>

User Direction of Feed

July 1999, Rev. B
SOT-223 Package Dimensions

SOT-223 (FS PKG Code 47)

Scale 1:1 on letter size paper

Part Weight per unit (gram): 0.1246

NOTES: UNLESS OTHERWISE SPECIFIED
1. STANDARD LEAD FINISH TO BE 150 MICROINCHES/3.81 MICROMETERS
   MINIMUMtin/lead (solder) ON COPPER.
2. REFERENCE JEDEC REGISTRATION TO-261, VARIATION AA, ISSUE A, DATED JAN 1990
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CROSSVOLT™ HiSeC™ QT Optoelectronics™ UHC™
DOME™ ISOPLANAR™ Quiet Series™ VCX™
E²CMOS™ MICROWIRE™ SILENT SWITCHER®
EnSigna™ OPTOLOGIC™ SMART START™
FACT™ OPTOPLANAR™ SuperSOT™-3
FACT Quiet Series™ PACMAN™ SuperSOT™-6
FAST® POP™ SuperSOT™-8

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

<table>
<thead>
<tr>
<th>Datasheet Identification</th>
<th>Product Status</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance Information</td>
<td>Formative or In Design</td>
<td>This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.</td>
</tr>
<tr>
<td>Preliminary</td>
<td>First Production</td>
<td>This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.</td>
</tr>
<tr>
<td>No Identification Needed</td>
<td>Full Production</td>
<td>This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.</td>
</tr>
<tr>
<td>Obsolete</td>
<td>Not In Production</td>
<td>This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.</td>
</tr>
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