

NPN TRANSISTORS

TO-92 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3391A series are silicon NPN transistors designed for general purpose amplifier applications.

MARKING: FULL PART NUMBER

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | 05 | UNITS |
|--|-----------------------------------|-------------|-------|
| Collector-Base Voltage | V _{CBO} | 25 | V |
| Collector-Emitter Voltage | VCEO | 25 | V |
| Emitter-Base Voltage | V _{EBO} | 5.0 | V |
| Continuous Collector Current | Ι _C | 500 | mA |
| Power Dissipation | PD | 625 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | Θ_{JA} | 200 | °C\W |

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|--------|---|-----|-----|-------|
| ICBO | V _{CB} =18V | | 100 | nA |
| IEBO | V _{EB} =5.0V | | 100 | nA |
| BVCBO | Ι _C =10μΑ | 25 | | V |
| BVCEO | I _C =10mA | 25 | | V |
| BVEBO | Ι _Ε =10μΑ | 5.0 | | V |
| Cob | V _{CB} =10V, f=1.0MHz | 2.0 | 10 | pF |
| NF | V _{CE} =4.5V, I _C =100μA, R _G =500Ω, | | | |
| | BW=15.7kHz (2N3391A only) | | 5.0 | dB |

| | | 2N3391A | | <u>2N3392</u> | | <u>2N3393</u> | |
|-----------------|--|---------|-----|---------------|-----|---------------|-----|
| | | MIN | MAX | MIN | MAX | MIN | MAX |
| h _{FE} | V _{CE} =4.5V, I _C =2.0mA | 250 | 500 | 150 | 300 | 90 | 180 |
| h _{fe} | V _{CE} =4.5V, I _C =2.0mA, f=1.0kHz | 250 | 800 | 150 | 500 | 90 | 400 |

R0 (29-January 2014)



2N3391A 2N3392 2N3393

SILICON NPN TRANSISTORS

А В 123 С D Н

DIMENSIONS INCHES MILLIMETERS SYMBOL MIN MAX MIN MAX A (DIA) 0.175 0.205 4.45 5.21 В 0.170 0.210 4.32 5.33 С 0.500 12.70 --0.016 0.022 0.41 0.56 D Е 0.100 2.54 F 0.050 1.27 G 0.125 0.165 3.18 4.19 Н 0.080 0.105 2.03 2.67 0.015 Т 0.38

TO-92 (REV: R1)

R0 (29-January 2014)

LEAD CODE:

1) Emitter

TO-92 CASE - MECHANICAL OUTLINE

2) Collector

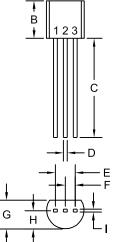
3) Base

R1

MARKING:

FULL PART NUMBER





OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

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