2N3391A 2N3392 2N3393

SILICON NPN TRANSISTORS



www.centralsemi.com

DESCRIPTION:

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



MARKING: FULL PART NUMBER

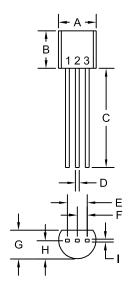
| MAXIMUM | RATINGS: (T _A =25°C) | SYMBO | L | | | U | NITS |
|--|---|-----------------------------------|--|-------------|------------|------------|------|
| Collector-Base Voltage | | V _{CBO} | | 25 | | | V |
| Collector-Emitter Voltage | | VCEO | | 25 | | | V |
| Emitter-Base Voltage | | V_{EBO} | | 5.0 | | V | |
| Continuous Collector Current | | I_{C} | | 500 | | mA | |
| Power Dissipation | | P_{D} | | 625 | | mW | |
| Operating and Storage Junction Temperature | | T _J , T _{stg} | - | -65 to +150 | | °C | |
| Thermal Resistance | | $\Theta_{\sf JA}$ | | 200 | | °C\W | |
| EI ECTRICAI | L CHARACTERISTICS: (T _A =25°C un | loss othory | visa natad) | | | | |
| SYMBOL | TEST CONDITIONS | MIN | vise rioleu) | MAX | | U | NITS |
| I _{CBO} | V _{CB} =18V | | | 100 | | | nA |
| I _{EBO} | V _{EB} =5.0V | | | 100 | | | nA |
| BV_{CBO} | I _C =10μA | 25 | | | | | V |
| BV _{CEO} | I _C =10mA | 25 | | | | | V |
| BV _{EBO} | I _E =10μA | 5.0 | | | | | V |
| C _{ob} | V _{CB} =10V, f=1.0MHz | 2.0 | | 10 | | | pF |
| NF | V_{CE} =4.5V, I_{C} =100 μ A, R_{G} =500 Ω , | | | | | | |
| | BW=15.7kHz (2N3391A only) | | | 5.0 | | | dB |
| | | | | | | | |
| | | 2N3391 | <u>A </u> | 3392 MAX | 2N3 MIN | 393 MAX | |
| hFF | V _{CE} =4.5V, I _C =2.0mA | | 00 150 | 300 | 90 | 180 | |
| h _{fe} | V _{CE} =4.5V, I _C =2.0mA, f=1.0kHz | 250 8 | 00 150 | 500 | 90 | 400 | |

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TO-92 CASE - MECHANICAL OUTLINE



| 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 | - | | | | |
| D | 0.016 | 0.022 | 0.41 | 0.56 | | | | |
| E | 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 | | 0.38 | | | | | |

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 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

- · Custom bar coding for shipments
- · Custom product packing

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

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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 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

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