

# Power Transistors

## TO-237 Case



| TYPE NO. |         | I <sub>C</sub> | P <sub>D</sub> | BV <sub>CBO</sub> | BV <sub>CEO</sub><br>*BV <sub>CES</sub> | h <sub>FE</sub> |        | @ I <sub>C</sub> | V <sub>CE(SAT)</sub> | @ I <sub>C</sub> | f <sub>T</sub> |
|----------|---------|----------------|----------------|-------------------|---|-----------------|--------|------------------|----------------------|------------------|----------------|
| NPN      | PNP     | (A)<br>MAX     | (W)            | (V)<br>MIN        | (V)<br>MIN                              | MIN             | MAX    | (mA)             | (V)<br>MAX           | (mA)             | (MHz)<br>MIN   |
| 2N6714   | 2N6726  | 2.0            | 2.0            | 40                | 30                                      | 50              | 250    | 1,000            | 0.5                  | 1,000            | 50             |
| 2N6715   | 2N6727  | 2.0            | 2.0            | 50                | 40                                      | 50              | 250    | 1,000            | 0.5                  | 1,000            | 50             |
| 2N6716   | 2N6728  | 2.0            | 2.0            | 60                | 60                                      | 50              | 250    | 250              | 0.35                 | 250              | 50             |
| 2N6717   | 2N6729  | 2.0            | 2.0            | 80                | 80                                      | 50              | 250    | 250              | 0.35                 | 250              | 50             |
| 2N6718   | 2N6730  | 2.0            | 2.0            | 100               | 100                                     | 50              | 250    | 250              | 0.35                 | 250              | 50             |
| 2N6719   |         | 0.5            | 2.0            | 300               | 300                                     | 40              | 200    | 30               | --                   | --               | 30             |
| 2N6720   |         | 1.0            | 2.0            | 175               | 150                                     | 10              | 50     | 500              | 0.5                  | 100              | 30             |
| 2N6721   |         | 1.0            | 2.0            | 225               | 200                                     | 10              | 50     | 500              | 0.5                  | 100              | 30             |
| 2N6722   |         | 1.0            | 2.0            | 275               | 250                                     | 10              | 50     | 500              | 0.5                  | 100              | 30             |
| 2N6723   |         | 1.0            | 2.0            | 325               | 300                                     | 10              | 50     | 500              | 0.5                  | 100              | 30             |
| 2N6724   |         | 1.5            | 2.0            | 50                | 40                                      | 4,000           | 40,000 | 1,000            | 1.0                  | 200              | 1.0            |
| 2N6725   |         | 1.5            | 2.0            | 60                | 50                                      | 4,000           | 40,000 | 1,000            | 1.0                  | 200              | 1.0            |
| 2N6731   | 2N6732  | 1.0            | 2.0            | 100               | 80                                      | 100             | 300    | 350              | 0.35                 | 350              | 50             |
| 2N6733   |         | 0.5            | 2.0            | 200               | 200                                     | 40              | 200    | 10               | 2.0                  | 20               | 50             |
| 2N6734   |         | 0.5            | 2.0            | 250               | 250                                     | 40              | 200    | 10               | 2.0                  | 20               | 50             |
| 2N6735   |         | 0.5            | 2.0            | 300               | 300                                     | 40              | 200    | 10               | 2.0                  | 20               | 50             |
| 2N6737   |         | 1.5            | 2.0            | 80                | 45                                      | 35              | --     | 500              | 0.52                 | 500              | 300            |
| CENW01   | CENW51  | 1.0            | 2.5            | 40                | 30                                      | 60              | --     | 100              | 0.7                  | 1,000            | 50             |
| CENW01A  | CENW51A | 1.0            | 2.5            | 50                | 40                                      | 60              | --     | 100              | 0.7                  | 1,000            | 50             |
| CENW05   | CENW55  | 0.5            | 2.5            | 60                | 60                                      | 80              | --     | 50               | 0.5                  | 250              | 50             |
| CENW06   | CENW56  | 0.5            | 2.5            | 80                | 80                                      | 80              | --     | 50               | 0.5                  | 250              | 50             |
| CENW07   | CENW57  | 0.5            | 2.5            | 100               | 100                                     | 80              | --     | 50               | 0.5                  | 250              | 50             |
| CENW10   | CENW60  | 0.5            | 2.5            | 300               | 300                                     | 25              | --     | 30               | 0.75                 | 20               | 50             |
| CENW13   | CENW63  | 1.0            | 2.5            | 30                | 30*                                     | 10,000          | --     | 100              | 1.5                  | 100              | 125            |
| CENW14   | CENW64  | 1.0            | 2.5            | 30                | 30*                                     | 20,000          | --     | 100              | 1.5                  | 100              | 125            |
| CENW42   | CENW92  | 0.5            | 2.5            | 300               | 300                                     | 40              | --     | 10               | 0.5                  | 20               | 50             |
| TN2102   |         | 1.0            | 2.0            | 120               | 65                                      | 40              | 120    | 150              | 0.5                  | 150              | 60             |
| TN2219A  |         | 0.8            | 2.0            | 75                | 40                                      | 100             | 300    | 150              | 1.6                  | 500              | 300            |
| TN2905A  |         | 0.8            | 2.0            | 60                | 60                                      | 100             | 300    | 150              | 1.6                  | 500              | 200            |
| TN3019   |         | 1.0            | 2.0            | 140               | 80                                      | 100             | 300    | 150              | 0.5                  | 500              | 100            |
| TN3020   |         | 1.0            | 2.0            | 140               | 80                                      | 40              | 120    | 150              | 0.5                  | 500              | 80             |
| TN3053   |         | 1.0            | 2.0            | 60                | 40                                      | 50              | 250    | 150              | 1.4                  | 150              | 100            |
| TN3724   |         | 1.5            | 2.0            | 50                | 30                                      | 35              | --     | 500              | 0.42                 | 500              | 300            |
| TN3725   |         | 1.5            | 2.0            | 80                | 50                                      | 35              | --     | 500              | 0.52                 | 500              | 300            |

Shaded areas indicate Darlington.

(6-December 2004)

**Central**  
Semiconductor Corp.  
www.centraisemi.com

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### 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.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
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# Product End of Life Notification

|                           |          |
|---------------------------|----------|
| <b>PDN ID:</b>            | PDN01004 |
| <b>Notification Date:</b> | 10/01/15 |
| <b>Last Buy Date:</b>     | 4/01/16  |
| <b>Last Shipment Date</b> | 10/01/16 |

Summary: All transistors manufactured in the TO-237 package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

| <b>Central Part Number</b> | <b>Replacement</b> |
|----------------------------|--------------------|
| CENW01                     | CEN-U01A           |
| CENW01A                    | CEN-U01A           |
| CENW05                     | CEN-U05            |
| CENW06                     | CEN-U06            |
| CENW07                     | CEN-U07            |
| CENW10                     | CEN-U10            |
| CENW13                     | MPSA13             |
| CENW13 TRA                 | MPSA13             |
| CENW14                     | MPSA14             |
| CENW42                     | MPSA42             |
| CENW42 TRA                 | MPSA42             |
| CENW42 TRC                 | MPSA42             |
| CENW42 TRE                 | MPSA42             |
| CENW51                     | CEN-U51A           |
| CENW51A                    | CEN-U51A           |
| CENW55                     | CEN-U55            |
| CENW56                     | CEN-U56            |
| CENW57                     | CEN-U57            |
| CENW60                     | CEN-U60            |
| CENW63                     | MPSA63             |
| CENW64                     | MPSA64             |
| CENW64-5                   | MPSA64             |
| CENW751                    | MPS751             |
| CENW92                     | MPSA92             |
| CENW92 TRA                 | MPSA92             |
| CENW92 TRE                 | MPSA92             |
| CEN1299                    | N/A                |
| CEN940                     | N/A                |
| TN2102                     | 2N2102             |
| TN2219A                    | 2N2219A            |
| TN2219A-5                  | 2N2219A            |
| TN2905A                    | 2N2905A            |
| TN2905A-5                  | 2N2905A            |
| TN3019                     | 2N3019             |
| TN3019-5                   | 2N3019             |
| TN3019A                    | 2N3019             |
| TN3020                     | 2N3020             |
| TN3053                     | 2N3053             |

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DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

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| <b>Central Part Number</b> | <b>Replacement</b> |
|----------------------------|--------------------|
| TN3724                     | N/A                |
| 2N6714                     | MPS650             |
| 2N6715                     | MPS650             |
| 2N6715 TRE                 | MPS650             |
| 2N6715-18                  | MPS650             |
| 2N6716                     | MPS651             |
| 2N6716 APM                 | MPS651             |
| 2N6716 APP                 | MPS651             |
| 2N6716 TRE                 | MPS651             |
| 2N6717                     | MPS651             |
| 2N6717 TRE                 | MPS651             |
| 2N6718                     | MPS651             |
| 2N6718 APM                 | MPS651             |
| 2N6718 TRE                 | MPS651             |
| 2N6718-5T                  | MPS651             |
| 2N6719                     | N/A                |
| 2N6719 TRA                 | N/A                |
| 2N6719 TRC                 | N/A                |
| 2N6719 TRE                 | N/A                |
| 2N6719-5T                  | N/A                |
| 2N6720                     | N/A                |
| 2N6721                     | N/A                |
| 2N6722                     | N/A                |
| 2N6723                     | N/A                |
| 2N6724                     | N/A                |
| 2N6724 TRA                 | N/A                |
| 2N6724-18                  | N/A                |
| 2N6725                     | N/A                |
| 2N6726                     | MPS650             |
| 2N6727                     | MPS750             |
| 2N6727 TRE                 | MPS750             |
| 2N6728                     | MPS751             |
| 2N6729                     | MPS751             |
| 2N6729 APP                 | MPS751             |
| 2N6730                     | MPS751             |
| 2N6730 APP                 | MPS751             |
| 2N6730 TRE                 | MPS751             |
| 2N6730-5T                  | MPS751             |
| 2N6731                     | N/A                |
| 2N6732                     | N/A                |
| 2N6733                     | N/A                |
| 2N6734                     | N/A                |
| 2N6735                     | N/A                |

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| <u>Central Part Number</u> | <u>Replacement</u> |
|----------------------------|--------------------|
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Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to [engineering@centrasemi.com](mailto:engineering@centrasemi.com).

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