2N6034 2N6035 2N6036 PNP 2N6037 2N6038 2N6039 NPN

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6034, 2N6037 series devices are complementary silicon Darlington power transistors, manufactured by the epitaxial base process, designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

| MAXIMUM RA | ATINGS: (T _C =25°C unless otherwise r | noted) | 2N6034 2N6037 | | 2N6036 2N6039 | UNITS |
|-----------------------|--|-----------------------------------|------------------|-------------|------------------|-------|
| Collector-Base | e Voltage | V_{CBO} | 40 | 60 | 80 | V |
| Collector-Emit | ter Voltage | V_{CEO} | 40 | 60 | 80 | V |
| Emitter-Base \ | Voltage | VEBO | | 5.0 | | V |
| Continuous Co | ollector Current | IC | | 4.0 | | Α |
| Peak Collecto | r Current | I _{CM} | | 8.0 | | Α |
| Continuous Ba | ase Current | lΒ | | 100 | | mA |
| Power Dissipa | ation | P_{D} | | 40 | | W |
| Power Dissipa | ation (T _A =25°C) | P_{D} | | 1.5 | | W |
| Operating and | Storage Junction Temperature | T _J , T _{stg} | | -65 to +150 | | °C |
| Thermal Resis | stance | Θ_{JA} | | 83.3 | | °C/W |
| Thermal Resis | stance | Θ JC | | 3.12 | | °C/W |
| | . CHARACTERISTICS: (T _C =25°C unle | ess otherwis | se noted) | | | |
| SYMBOL | TEST CONDITIONS | MIN | | MAX | | UNITS |
| ICBO | V _{CB} =Rated V _{CBO} | | | 500 | | μA |
| ICEV | V _{CE} =Rated V _{CEO} , V _{BE} =1.5V | | | 100 | | μA |
| ICEV | V _{CE} =Rated V _{CEO} , V _{BE} =1.5V, T _C =1 | 125°C | | 500 | | μΑ |
| ICEO | V _{CE} =Rated V _{CEO} | | | 100 | | μΑ |
| I _{EBO} | V _{EB} =5.0V | | | 2.0 | | mA |
| BVCEO | I _C =100mA (2N6034, 2N6037) | 40 | | | | V |
| BVCEO | I _C =100mA (2N6035, 2N6038) | 60 | | | | V |
| BVCEO | I _C =100mA (2N6036, 2N6039) | 80 | | | | V |
| VCE(SAT) | I _C =2.0A, I _B =8.0mA | | | 2.0 | | V |
| VCE(SAT) | I _C =4.0A, I _B =40mA | | | 3.0 | | V |
| V _{BE} (SAT) | I _C =4.0A, I _B =40mA | | | 4.0 | | V |
| V _{BE(ON)} | $V_{CE} = 3.0V, I_{C} = 2.0A$ | | | 2.8 | | V |
| hFE | V_{CE} =3.0V, I_{C} =500mA | 500 | | | | |
| h _{FE} | V_{CE} =3.0V, I_{C} =2.0A | 750 | | 15K | | |
| h _{FE} | $V_{CE}=3.0V, I_{C}=4.0A$ | 100 | | | | |
| fT | V_{CE} =10V, I_{C} =750mA, f=1.0MHz | 25 | | | | MHz |
| C _{ob} | V_{CB} =10V, I_E =0, f=100kHz (PNP) | | | 200 | | pF |
| C _{ob} | V _{CB} =10V, I _E =0, f=100kHz (NPN) | | | 100 | | pF |

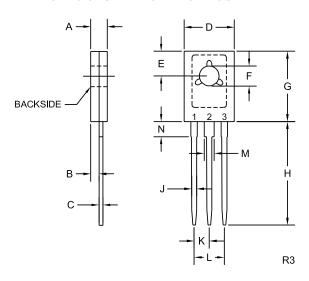
R1 (12-March 2014)

2N6034 2N6035 2N6036 PNP 2N6037 2N6038 2N6039 NPN

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS



TO-126 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

MARKING:

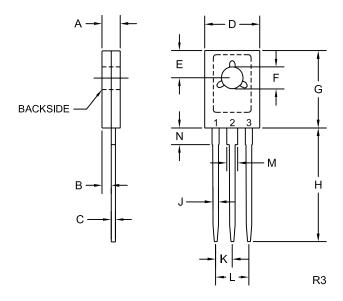
FULL PART NUMBER

| DIMENSIONS | | | | |
|------------|--------|-------|-------------|-------|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| Α | 0.094 | 0.110 | 2.40 | 2.80 |
| В | 0.0 |)50 | 1. | 27 |
| С | 0.015 | 0.030 | 0.38 | 0.75 |
| D | 0.291 | 0.335 | 7.40 | 8.50 |
| Е | 0.1 | 48 | 3.75 | |
| F | 0.118 | 0.134 | 3.00 | 3.40 |
| G | 0.413 | 0.472 | 10.50 | 12.00 |
| Н | 0.6 | 318 | 15.70 | |
| J | 0.024 | 0.035 | 0.62 | 0.90 |
| K | 0.0 |)89 | 2.25 | |
| Ĺ | 0.177 | | 4.50 | |
| М | 0.045 | 0.055 | 1.14 | 1.40 |
| N | 0.0 |)83 | 2. | 10 |

TO-126 (REV:R3)

Package Details - TO-126

Mechanical Drawing



Standard: Bulk

Devices are bulk packed in white corrugated box with black conductive coating (surface resistivity of <10⁵ ohms per square).

Standard Packing Quantity: 1K

Optional Packing: Antistatic SleevesDevices may be packed in antistatic sleeves

Sleeve Packing Quantity: 50

| DIMENSIONS | | | | | |
|------------------|-------|-------|--------|-------|--|
| | INC | HES | MILLIM | ETERS | |
| SYMBOL | MIN | MAX | MIN | MAX | |
| Α | 0.094 | 0.110 | 2.40 | 2.80 | |
| В | 0.0 |)50 | 1.: | 27 | |
| С | 0.015 | 0.030 | 0.38 | 0.75 | |
| D | 0.291 | 0.335 | 7.40 | 8.50 | |
| Е | 0.1 | 148 | 3.75 | | |
| F | 0.118 | 0.134 | 3.00 | 3.40 | |
| G | 0.413 | 0.472 | 10.50 | 12.00 | |
| Н | 0.6 | 318 | 15.70 | | |
| J | 0.024 | 0.035 | 0.62 | 0.90 | |
| K | 0.0 |)89 | 2.25 | | |
| L | 0.1 | 177 | 4.50 | | |
| M | 0.045 | 0.055 | 1.14 | 1.40 | |
| N | 0.0 |)83 | 2. | 10 | |
| TO_126 (DE\/:D3) | | | | | |

TO-126 (REV:R3)

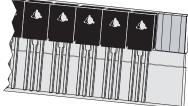
LEAD CODE:

| TRIAC | SCR |
|---------|------------|
| 1) MT1 | 1) CATHODE |
| 2) MT2 | 2) ANODE |
| 3) GATE | 3) GATE |

TRANSISTOR

- 1) EMITTER
- 2) COLLECTOR
- 3) BASE

Note: Mounting Plate Common to Pin 2



TO-126 Antistatic Sleeve



R0 (21-June 2004)

Material Composition Specification

TO-126 Case





| | Material | | | Substance | е | | | |
|---------------|-------------------------------|--------|------|--------------------------------|--|--------|--------|-----------------------|
| Component | Material | (%wt) | (mg) | Substance CAS No. | (%wt) | (mg) | (ppm) | |
| active device | doped Si | 0.15% | 1.01 | Si | 7440-21-3 | 0.15% | 1.01 | 1,530 |
| bond wire | copper | 0.31% | 2.03 | Cu | 7440-50-8 | 0.31% | 2.03 | 3,075 |
| | | | | Cu | 7440-50-8 | 45.1% | 297.70 | 450,992 |
| leadframe | Cu alloy w/ silver plating | 45.90% | 303 | Fe | 7439-89-6 | 0.05% | 0.31 | 470 7,575 2,833 |
| | | | | Ag | 7440-22-4 | 0.76% | 5.0 | 7,575 |
| | | | | Pb | 7439-92-1 | 0.28% | 1.87 | 2,833 |
| die attach | silver epoxy | 0.30% | 2.00 | Sn | 7440-31-5 | 0.02% | 0.10 | 151 |
| | | | | Ag | 7440-22-4 | 0% | 0.03 | 45 |
| | | | | silica | 7631-86-9 | 36.91% | 243.62 | 369,065 |
| | EMC | 52.72% | 348 | epoxy resin | Proprietary | 14.23% | 93.94 | 142,312 |
| encapsulation | EMC | 52.72% | 348 | Sb ₂ O ₃ | Sb ₂ O ₃ 1309-64-4 0.79% | 5.22 | 7,908 | |
| | | | | TBBA 79-94-7 | 0.79% | 5.22 | 7,908 | |
| | tin/lood process | 0.640/ | 4.0E | Sn | 7440-31-5 | 0.49% | 3.25 | 4,923 |
| plating* | tin/lead process | 0.61% | 4.05 | Pb | 7439-92-1 | 0.12% | 0.80 | 1,212 |
| | matte tin | 0.61% | 4.05 | Sn | 7440-31-5 | 0.61% | 4.05 | 6,135 |

^{*}For Lead Free plating, add suffix "PB FREE" to part number.

Disclaimer

The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

For Tin/Lead plating, add suffix "TIN/LEAD" to part number.

No suffix designation allows for the supply of either lead-free or tin/lead plated product depending on availability.

Material Composition Specification

TO-126 Case





| | Component Material Substance CAS No. | Substance | | | | | | |
|-----------------|--------------------------------------|-----------|------|--------------------------------|---|--------|---------|---------|
| Component | Material | (%wt) | (mg) | Substance CAS No. | (%wt) | (mg) | (ppm) | |
| active device | doped Si | 0.15% | 1.01 | Si | 7440-21-3 | 0.15% | 1.01 | 1,530 |
| bond wire | copper | 0.31% | 2.03 | Cu | 7440-50-8 | 0.31% | 2.03 | 3,075 |
| | | | | Cu | 7440-50-8 | 45.1% | 297.70 | 450,992 |
| leadframe | Cu alloy w/ silver plating | 45.90% | 303 | Fe | 7439-89-6 | 0.05% | 0.31 | 470 |
| | | | | Ag | 7440-22-4 | 0.76% | 5.0 | 7,575 |
| | | | | Pb | 7439-92-1 | 0.28% | 1.87 | 2,833 |
| die attach | silver epoxy | 0.30% | 2.00 | Sn | 7440-31-5 | 0.02% | 0.10 | 151 |
| | | | | Ag | 7440-22-4 | 0% | 0.03 | 45 |
| | | | | silica | 7631-86-9 | 36.91% | 243.62 | 369,065 |
| an accountation | EMC | 52.72% | 348 | epoxy resin | Proprietary | 14.23% | 93.94 1 | 142,312 |
| encapsulation | EIVIC | 52.72% | 340 | Sb ₂ O ₃ | o ₂ O ₃ 1309-64-4 0.79% | 5.22 | 7,908 | |
| | | | | TBBA 79-94-7 0. | 0.79% | 5.22 | 7,908 | |
| | tin/lood process | 0.649/ | 4.0E | Sn | 7440-31-5 | 0.49% | 3.25 | 4,923 |
| plating* | tin/lead process | 0.61% | 4.05 | Pb | 7439-92-1 | 0.12% | 0.80 | 1,212 |
| | matte tin | 0.61% | 4.05 | Sn | 7440-31-5 | 0.61% | 4.05 | 6,135 |

^{*}For Lead Free plating, add suffix "PB FREE" to part number.

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The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

For Tin/Lead plating, add suffix "TIN/LEAD" to part number.

No suffix designation allows for the supply of either lead-free or tin/lead plated product depending on availability.

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 quick 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

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

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)



| PDN ID: | PDN01250 |
|--------------------|------------|
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| Last Shipment Date | Stock Only |

https://www.centralsemi.com

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. Orders can only be accepted for products with available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor, LLC

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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.



| PDN ID: | PDN01250 |
|--------------------|------------|
| Notification Date: | 2/10/23 |
| Last Buy Date: | |
| Last Shipment Date | Stock Only |

https://www.centralsemi.com

Summary: The following power transistors are discontinued and now classified as of End of Life (EOL). NOTE: If inventory has been depleted, some devices may be available on special order; please contact your Central salesperson, manufacturer's rep, franchised distributor, or inquiry@centralsemi.com.

Although Central Semiconductor makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other 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 ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| BDW51 | N/A |
| BDW51A | N/A |
| BDW51B | N/A |
| BDW51C | N/A |
| BDW52 | N/A |
| BDW52A | N/A |
| BDW52B | N/A |
| BDW52C | N/A |
| BDW94B | N/A |
| BDX20 | N/A |
| BDX54 | N/A |
| BDX54B | N/A |
| BDX54C | N/A |
| BDX54E | N/A |
| BDX85 | N/A |
| BDX85A | N/A |
| BDX85B | N/A |
| BDX85C | N/A |
| BDX87 | N/A |
| BDX87A | N/A |
| BDX87B | N/A |
| BDX87C | N/A |
| BDY90 | N/A |
| BD135 | N/A |
| BD135 SL | N/A |
| BD135-10 SL | N/A |
| BD135-16 | N/A |
| BD135-16 SL | N/A |
| BD136 | N/A |
| BD136-10 | N/A |
| BD136-10 SL | N/A |
| BD136-16 | N/A |
| BD136-16 SL | N/A |
| BD137 | N/A |
| *** CONTINUED *** | |

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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.



Product End of Life Notification

| PDN ID: | PDN01250 |
|--------------------|------------|
| Notification Date: | 2/10/23 |
| Last Buy Date: | |
| Last Shipment Date | Stock Only |

*** CONTINUED FROM PRIOR PAGE ***

^{*} All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| BD137-10 | N/A | |
| BD137-10 SL | N/A | |
| BD137-16 | N/A | |
| BD138 | N/A | |
| BD138-10 | N/A | |
| BD138-10 SL | N/A | |
| BD138-16 | N/A | |
| BD138-16 SL | N/A | |
| BD139 | N/A | |
| BD139-10 | N/A | |
| BD139-10 SL | N/A | |
| BD139-16 | N/A | |
| BD139-16 SL | N/A | |
| BD140 | N/A | |
| BD140-10 | N/A | |
| BD140-10 SL | N/A | |
| BD140-16 | N/A | |
| BD140-16 SL | N/A | |
| BD157 | N/A | |
| BD157 BD158 | N/A | |
| BD150 BD159 | N/A | |
| BD175 | N/A | |
| BD176 | N/A | |
| BD170 BD177 | N/A | |
| BD177 | N/A | |
| BD178 BD179 | N/A | |
| BD180 | N/A | |
| | | |
| BD201 | N/A | |
| BD204 | N/A | |
| BD233 | N/A | |
| BD234 | N/A | |
| BD235 | N/A | |
| BD236 | N/A | |
| BD237 | N/A | |
| BD238 | N/A | |
| BD238 SL | N/A | |
| BD433 | N/A | |
| BD434 | N/A | |
| BD437 | N/A | |
| BD438 | N/A | |
| BD439 | N/A | |
| BD440 | N/A | |
| BD441 | N/A | |

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Product End of Life Notification

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|--------------------|------------|
| Notification Date: | 2/10/23 |
| Last Buy Date: | |
| Last Shipment Date | Stock Only |

*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| BD442 | N/A | |
| BD537 | N/A | |
| BD538 | N/A | |
| BD675 | N/A | |
| BD675A | N/A | |
| BD676 | N/A | |
| BD676A | N/A | |
| BD676A SL | N/A | |
| BD677 | N/A | |
| BD677A | N/A | |
| BD678 | N/A | |
| BD678A | N/A | |
| BD679 | N/A | |
| BD679A | N/A | |
| BD679A SL | N/A | |
| BD680 | N/A | |
| BD680A | N/A | |
| BD680A SL | N/A | |
| BD681 | N/A | |
| BD681 SL | N/A | |
| BD682 | N/A | |
| BD682 SL | N/A | |
| BD683 | N/A | |
| BD683 SL | N/A | |
| BD908 | N/A | |
| BF457 | N/A | |
| BF458 | N/A | |
| BF459 | N/A | |
| BF459 SL | N/A | |
| | N/A N/A | |
| BF469 | N/A N/A | |
| BF471 | | |
| BF472 | N/A | |
| BUW34 | N/A | |
| BUW35 | N/A | |
| BUW36 | N/A | |
| BUW44 | N/A | |
| BUW45 | N/A | |
| BUW46 | N/A | |
| BUX43 | N/A | |
| BUX44 | N/A | |
| BUX47 | N/A | |
| BUX48 | N/A | |
| BUX80 | N/A | |

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Product End of Life Notification

| PDN ID: | PDN01250 |
|--------------------|------------|
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| Last Shipment Date | Stock Only |

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* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| BUY69A | N/A | |
| BUY69B | N/A | |
| BUY69C | N/A | |
| BU408 | N/A | |
| BU409 | N/A | |
| CEN1025 | N/A | |
| CEN1037 | N/A | |
| CEN1063 | N/A | |
| CEN1092 | N/A | |
| CEN1102 | N/A | |
| CEN1111 | N/A | |
| CEN1177 | N/A | |
| CEN1247 | N/A | |
| CEN1306 | N/A | |
| CEN1323 | N/A | |
| CEN1328 | N/A | |
| CEN1364 SL | N/A | |
| CEN1378 SL | N/A | |
| CEN1391 | N/A | |
| CEN1396 | N/A | |
| CEN1406 | N/A | |
| CEN1416 | N/A | |
| CEN1439 | N/A | |
| CEN1450 | N/A | |
| CEN496 | N/A | |
| CEN537 | N/A | |
| CEN591 | N/A | |
| CEN596 | N/A | |
| CEN644 | N/A | |
| CEN671 | N/A | |
| CEN698-1 | N/A | |
| CEN698-2 | N/A | |
| CEN774 | N/A | |
| CEN821 | N/A | |
| CEN844 | N/A | |
| CEN925 | N/A | |
| CEN951 | N/A | |
| CEN961 | N/A | |
| CEN972 | N/A | |
| CEN992 | N/A | |
| CM3441 | N/A | |
| CP166-BUP54-WN | N/A | |
| CZT122 BK | N/A | |
| ** CONTINUED *** | 1 1/ 4 1 | |

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| Last Shipment Date | Stock Only |

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*** CONTINUED FROM PRIOR PAGE ***

^{*} All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement |
|---------------------------|-----------------------|
| CZT122 TR | N/A |
| CZT31C BK | N/A |
| CZT31C TR | N/A |
| D44C12 | N/A |
| D44E1 | N/A |
| D44E3 | N/A |
| D45E3 | N/A |
| D45H8 | N/A |
| MJE13003 | N/A |
| MJE13003 SL | N/A |
| MJE13005 | N/A |
| MJE13005 SL | N/A |
| MJE13006 | N/A |
| MJE13008 | N/A |
| MJE13009 | N/A |
| MJE15030 | N/A |
| MJE15031 | N/A |
| MJE170 | N/A |
| MJE171 | N/A |
| MJE172 | N/A |
| MJE180 | N/A |
| MJE181 | N/A |
| MJE182 | N/A |
| MJE200 | N/A |
| MJE210 | N/A |
| MJE220 | N/A |
| MJE221 | N/A |
| MJE222 | N/A |
| MJE223 | N/A |
| MJE224 | N/A |
| MJE225 | N/A |
| MJE230 | N/A |
| MJE231 | N/A |
| MJE232 | N/A |
| MJE232 MJE233 | N/A |
| MJE234 | N/A |
| MJE235 | N/A |
| MJE2360T | N/A |
| MJE240 | N/A N/A |
| MJE241 | N/A N/A |
| MJE241 MJE242 | N/A N/A |
| MJE243 | |
| | N/A |
| MJE244 * CONTINUED *** | N/A |

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* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| MJE250 | N/A | |
| MJE251 | N/A | |
| MJE252 | N/A | |
| MJE253 | N/A | |
| MJE254 | N/A | |
| MJE2801T | N/A | |
| MJE2901T | N/A | |
| MJE2955T | N/A | |
| MJE340 | N/A | |
| MJE341 | N/A | |
| MJE344 | N/A | |
| MJE344 SL | N/A | |
| MJE3440 | N/A | |
| MJE350 | N/A | |
| MJE370 | N/A | |
| MJE371 | N/A | |
| MJE520 | N/A | |
| MJE521 | N/A | |
| MJE700 | N/A | |
| MJE701 | N/A | |
| MJE702 | N/A | |
| MJE703 | N/A | |
| MJE710 | N/A | |
| MJE711 | N/A | |
| MJE712 | N/A | |
| MJE720 | N/A | |
| MJE721 | N/A | |
| MJE722 | N/A | |
| MJE800 | N/A | |
| MJE800T | N/A | |
| MJE801 | N/A | |
| MJE801T | N/A | |
| MJE802 | N/A | |
| MJE802T | N/A | |
| MJE803 | N/A | |
| MJE803T | N/A | |
| MJ1000 | N/A | |
| MJ1001 | N/A | |
| MJ10012 | N/A | |
| MJ11011 | N/A | |
| MJ11012 | N/A | |
| MJ11013 | N/A | |
| MJ11013 | N/A | |

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| Central Part Number | Suggested Replacement | |
|-----------------------|-----------------------|--|
| MJ11015 | N/A | |
| MJ11016 | N/A | |
| MJ2501 | N/A | |
| MJ2955 | N/A | |
| MJ3000 | N/A | |
| MJ3001 | N/A | |
| MJ4033 | N/A | |
| MJ4035 | N/A | |
| MJ410 | N/A | |
| MJ802 | N/A | |
| MJ901 | N/A | |
| PMD10K100 | N/A | |
| PMD10K40 | N/A | |
| PMD10K60 | N/A | |
| PMD10K80 | N/A | |
| PMD12K100 | N/A | |
| PMD12K40 | N/A | |
| PMD12K60 | N/A | |
| PMD12K80 | N/A | |
| PMD13K100 | N/A | |
| PMD16K100 | N/A | |
| PMD16K60 | N/A | |
| PMD16K80 | N/A | |
| PMD1601K | N/A | |
| PMD1602K | N/A | |
| PMD1603K | N/A | |
| PMD17K100 | N/A | |
| PMD17K100 PMD17K60 | N/A | |
| PMD17K80 | N/A | |
| PMD17R60 | N/A N/A | |
| PMD1701K | N/A N/A | |
| PMD1702K | N/A N/A | |
| | | |
| PMD18K100 | N/A | |
| PMD18K60 | N/A | |
| PMD18K80 | N/A | |
| PMD19K100 | N/A | |
| PMD19K60 | N/A | |
| PMD19K80 | N/A | |
| SE9303 | N/A | |
| SE9304 | N/A | |
| SE9305 | N/A | |
| TIP102 | N/A | |
| TIP107 | N/A | |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| TIP107 SL | N/A |
| TIP117 | N/A |
| TIP117 SL | N/A |
| TIP122 | N/A |
| TIP122 SL | N/A |
| TIP127 | N/A |
| TIP127 SL | N/A |
| TIP132 | N/A |
| TIP137 | N/A |
| TIP140T | N/A |
| TIP141T | N/A |
| TIP142T | N/A |
| TIP145T | N/A |
| TIP146T | N/A |
| TIP147T | N/A |
| TIP29 | N/A |
| TIP29A | N/A |
| TIP29A SL | N/A |
| TIP29B | N/A |
| TIP29C | N/A |
| TIP31 | N/A |
| TIP31 SL | N/A |
| TIP31A | N/A |
| TIP31B | N/A |
| TIP31C SL | N/A |
| TIP32 | N/A |
| TIP32A | N/A |
| TIP32A SL | N/A |
| TIP32B | N/A |
| TIP32C | N/A |
| TIP41 | N/A |
| TIP41A | N/A |
| TIP41B | N/A |
| TIP41C | N/A |
| | |
| TIP41C SL | N/A |
| TIP42 | N/A |
| TIP42A | N/A |
| TIP42B | N/A |
| TIP42C | N/A |
| TIP42C SL | N/A |
| TIP42D | N/A |
| 2N3054 | N/A |
| 2N3055 | N/A |

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^{*} All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| 2N3442 | N/A | |
| 2N3448 | N/A | |
| 2N3713 | N/A | |
| 2N3714 | N/A | |
| 2N3715 | N/A | |
| 2N3716 | N/A | |
| 2N3766 | N/A | |
| 2N3767 | N/A | |
| 2N3771 | N/A | |
| 2N3772 | N/A | |
| 2N3773 | N/A | |
| 2N3789 | N/A | |
| 2N3790 | N/A | |
| 2N3791 | N/A | |
| 2N3792 | N/A | |
| 2N3902 | N/A | |
| 2N4231 | N/A | |
| 2N4231 2N4232 | N/A | |
| 2N4233 | N/A | |
| 2N4233 2N4347 | N/A | |
| 2N4348 | N/A | |
| 2N4398 | N/A N/A | |
| | N/A N/A | |
| 2N4399 | | |
| 2N4901 | N/A | |
| 2N4902 | N/A | |
| 2N4903 | N/A | |
| 2N4904 | N/A | |
| 2N4905 | N/A | |
| 2N4906 | N/A | |
| 2N4910 | N/A | |
| 2N4911 | N/A | |
| 2N4912 | N/A | |
| 2N4913 | N/A | |
| 2N4914 | N/A | |
| 2N4915 | N/A | |
| 2N4918 | N/A | |
| 2N4919 | N/A | |
| 2N4920 | N/A | |
| 2N4921 | N/A | |
| 2N4922 | N/A | |
| 2N4923 | N/A | |
| 2N4923 SL | N/A | |
| 2N5067 | N/A | |

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* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| 2N5068 | N/A | |
| 2N5069 | N/A | |
| 2N5192 | N/A | |
| 2N5192 SL | N/A | |
| 2N5195 | N/A | |
| 2N5195 SL | N/A | |
| 2N5240 | N/A | |
| 2N5294 | N/A | |
| 2N5296 | N/A | |
| 2N5297 | N/A | |
| 2N5297 SL | N/A | |
| 2N5298 | N/A | |
| 2N5301 | N/A | |
| 2N5302 | N/A | |
| 2N5303 | N/A | |
| 2N5490 | N/A | |
| 2N5492 | N/A | |
| 2N5494 | N/A | |
| 2N5494 2N5496 | N/A | |
| 2N5629 | | |
| | N/A | |
| 2N5632 | N/A | |
| 2N5655 | N/A | |
| 2N5656 | N/A | |
| 2N5657 | N/A | |
| 2N5745 | N/A | |
| 2N5760 | N/A | |
| 2N5838 | N/A | |
| 2N5873 | N/A | |
| 2N5875 | N/A | |
| 2N5876 | N/A | |
| 2N5877 | N/A | |
| 2N5878 | N/A | |
| 2N5879 | N/A | |
| 2N5880 | N/A | |
| 2N5881 | N/A | |
| 2N5882 | N/A | |
| 2N5883 | N/A | |
| 2N5884 | N/A | |
| 2N5885 | N/A | |
| 2N5886 | N/A | |
| 2N6029 | N/A | |
| 2N6031 | N/A | |
| 2N6034 | N/A | |
| * CONTINUED *** | | |

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| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| 2N6035 | N/A | |
| 2N6036 | N/A | |
| 2N6037 | N/A | |
| 2N6038 | N/A | |
| 2N6039 SL | N/A | |
| 2N6040 | N/A | |
| 2N6042 | N/A | |
| 2N6043 | N/A | |
| 2N6044 | N/A | |
| 2N6045 | N/A | |
| 2N6050 | N/A | |
| 2N6051 | N/A | |
| 2N6052 | N/A | |
| 2N6055 | N/A | |
| 2N6056 | N/A | |
| 2N6057 | N/A | |
| 2N6058 | N/A | |
| 2N6059 | N/A | |
| 2N6099 | N/A | |
| 2N6109 | N/A | |
| 2N6111 | N/A | |
| 2N6121 | N/A | |
| 2N6122 | N/A | |
| 2N6123 | N/A | |
| 2N6124 | N/A | |
| 2N6125 | N/A | |
| 2N6126 | N/A | |
| 2N6129 | N/A | |
| 2N6130 | N/A | |
| 2N6131 | N/A | |
| 2N6132 | N/A | |
| 2N6133 | N/A | |
| 2N6134 | N/A | |
| 2N6226 | N/A | |
| 2N6229 | N/A | |
| 2N6230 | N/A | |
| 2N6246 | N/A | |
| 2N6247 | N/A | |
| 2N6247 2N6248 | N/A N/A | |
| | N/A N/A | |
| 2N6249 | | |
| 2N6250 | N/A | |
| 2N6251 | N/A | |
| 2N6253 | N/A | |

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| Central Part Number | Suggested Replacement | |
|---------------------|-----------------------|--|
| 2N6254 | N/A | |
| 2N6259 | N/A | |
| 2N6260 | N/A | |
| 2N6263 | N/A | |
| 2N6282 | N/A | |
| 2N6283 | N/A | |
| 2N6284 | N/A | |
| 2N6285 | N/A | |
| 2N6286 | N/A | |
| 2N6287 | N/A | |
| 2N6288 | N/A | |
| 2N6290 | N/A | |
| 2N6292 | N/A | |
| 2N6306 | N/A | |
| 2N6307 | N/A | |
| 2N6308 | N/A | |
| 2N6312 | N/A | |
| 2N6371 | N/A | |
| 2N6383 | N/A | |
| | N/A | |
| 2N6384 2N6385 | | |
| | N/A | |
| 2N6386 | N/A | |
| 2N6387 | N/A | |
| 2N6388 | N/A | |
| 2N6465 | N/A | |
| 2N6466 | N/A | |
| 2N6469 | N/A | |
| 2N6470 | N/A | |
| 2N6471 | N/A | |
| 2N6472 | N/A | |
| 2N6475 | N/A | |
| 2N6476 | N/A | |
| 2N6489 | N/A | |
| 2N6489 SL | N/A | |
| 2N6490 | N/A | |
| 2N6491 | N/A | |
| 2N6497 | N/A | |
| 2N6498 | N/A | |
| 2N6498 SL | N/A | |
| 2N6499 | N/A | |
| 2N6499 SL | N/A | |
| 2N6530 | N/A | |
| 2N6531 | N/A | |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| 2N6532 | N/A |
| 2N6543 | N/A |
| 2N6544 | N/A |
| 2N6545 | N/A |
| 2N6546 | N/A |
| 2N6547 | N/A |
| 2N6569 | N/A |
| 2N6576 | N/A |
| 2N6577 | N/A |
| 2N6578 | N/A |
| 2N6594 | N/A |
| 2N6609 | N/A |
| 2N6666 | N/A |
| 2N6667 | N/A |
| 2N6668 | N/A |
| 2N6671 | N/A |
| 2N6672 | N/A |
| 2N6673 | N/A |
| 2N6674 | N/A |
| 2N6675 | N/A |
| 2N6677 | N/A |
| 2N6678 | N/A |
| 40250 | N/A |
| 40312 | N/A |

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. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

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