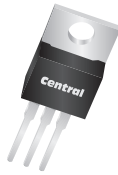


2N6486 2N6487 2N6488 NPN
2N6489 2N6490 2N6491 PNP

**COMPLEMENTARY SILICON
POWER TRANSISTORS**



TO-220 CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6486, 2N6489 series types are complementary silicon power transistors designed for general purpose switching and amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

| | SYMBOL | 2N6486 2N6489 | 2N6487 2N6490 | 2N6488 2N6491 | UNITS |
|--|----------------|------------------|------------------|------------------|--------------------|
| Collector-Base Voltage | V_{CBO} | 50 | 70 | 90 | V |
| Collector-Emitter Voltage | V_{CEO} | 40 | 60 | 80 | V |
| Emitter-Base Voltage | V_{EBO} | | 5.0 | | V |
| Continuous Collector Current | I_C | | 15 | | A |
| Continuous Base Current | I_B | | 5.0 | | A |
| Power Dissipation | P_D | | 75 | | W |
| Power Dissipation ($T_A=25^\circ\text{C}$) | P_D | | 1.8 | | W |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | -65 to +150 | | $^\circ\text{C}$ |
| Thermal Resistance | θ_{JC} | | 1.67 | | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS: ($T_C=25^\circ\text{C}$)

| SYMBOL | TEST CONDITIONS | 2N6486 2N6489 | | 2N6487 2N6490 | | 2N6488 2N6491 | | UNITS |
|---------------|---|------------------|-----|------------------|-----|------------------|-----|---------------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | |
| I_{CEV} | $V_{CE}=45V, V_{EB}=1.5V$ | - | 500 | - | - | - | - | μA |
| I_{CEV} | $V_{CE}=65V, V_{EB}=1.5V$ | - | - | - | 500 | - | - | μA |
| I_{CEV} | $V_{CE}=85V, V_{EB}=1.5V$ | - | - | - | - | - | 500 | μA |
| I_{CEO} | $V_{CE}=\frac{1}{2} \text{ Rated } V_{CEO}$ | - | 1.0 | - | 1.0 | - | 1.0 | mA |
| I_{EBO} | $V_{EB}=5.0V$ | - | 1.0 | - | 1.0 | - | 1.0 | mA |
| BV_{CEV} | $V_{BE}=1.5V, I_C=200\text{mA}$ | 50 | - | 70 | - | 90 | - | V |
| BV_{CEO} | $I_C=200\text{mA}$ | 40 | - | 60 | - | 80 | - | V |
| $V_{CE(SAT)}$ | $I_C=5.0A, I_B=0.5A$ | - | 1.3 | - | 1.3 | - | 1.3 | V |
| $V_{CE(SAT)}$ | $I_C=15A, I_B=5.0A$ | - | 3.5 | - | 3.5 | - | 3.5 | V |
| $V_{BE(ON)}$ | $V_{CE}=4.0V, I_C=5.0A$ | - | 1.3 | - | 1.3 | - | 1.3 | V |
| $V_{BE(ON)}$ | $V_{CE}=4.0V, I_C=15A$ | - | 3.5 | - | 3.5 | - | 3.5 | V |
| h_{FE} | $V_{CE}=4.0V, I_C=5.0A$ | 20 | 150 | 20 | 150 | 20 | 150 | |
| h_{FE} | $V_{CE}=4.0V, I_C=15A$ | 5.0 | - | 5.0 | - | 5.0 | - | |
| h_{fe} | $V_{CE}=4.0V, I_C=1.0A, f=1.0\text{kHz}$ | 25 | - | 25 | - | 25 | - | |
| f_T | $V_{CE}=4.0V, I_C=1.0A, f=1.0\text{MHz}$ | 5.0 | - | 5.0 | - | 5.0 | - | MHz |

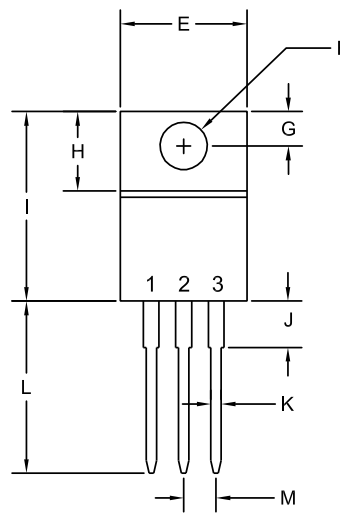
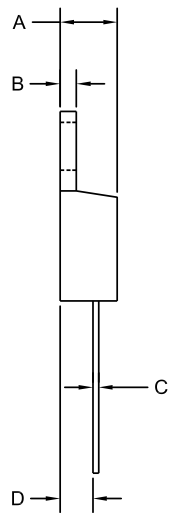
R1 (11-September 2012)

2N6486 2N6487 2N6488 NPN
2N6489 2N6490 2N6491 PNP

**COMPLEMENTARY SILICON
POWER TRANSISTORS**



TO-220 CASE - MECHANICAL OUTLINE



R2

LEAD CODE:

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

MARKING:

FULL PART NUMBER

| SYMBOL | DIMENSIONS | | | |
|---------|------------|-------|-------------|-------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.170 | 0.190 | 4.31 | 4.82 |
| B | 0.045 | 0.055 | 1.15 | 1.39 |
| C | 0.013 | 0.026 | 0.33 | 0.65 |
| D | 0.083 | 0.107 | 2.10 | 2.72 |
| E | 0.394 | 0.417 | 10.01 | 10.60 |
| F (DIA) | 0.140 | 0.157 | 3.55 | 4.00 |
| G | 0.100 | 0.118 | 2.54 | 3.00 |
| H | 0.230 | 0.270 | 5.85 | 6.85 |
| I | 0.560 | 0.625 | 14.23 | 15.87 |
| J | - | 0.250 | - | 6.35 |
| K | 0.025 | 0.038 | 0.64 | 0.96 |
| L | 0.500 | 0.579 | 12.70 | 14.70 |
| M | 0.090 | 0.110 | 2.29 | 2.79 |

TO-220 (REV: R2)

R1 (11-September 2012)

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.centalsemi.com

Worldwide Field Representatives:
www.centalsemi.com/wwreps

Worldwide Distributors:
www.centalsemi.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.centalsemi.com/terms

Product End of Life Notification

| | |
|---------------------------|----------|
| PDN ID: | PDN01192 |
| Notification Date: | 10/19/21 |
| Last Buy Date: | 4/19/22 |
| Last Shipment Date | 10/19/22 |

Summary: The following through-hole transistors are discontinued and now classified as of 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 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 Management Process. 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 |
|----------------------------|------------------------------|
| BU911 | N/A |
| CEN597 | N/A |
| MJE3055T | N/A |
| MJ4034 | N/A |
| 2N2483 | N/A |
| 2N2540 | N/A |
| 2N3735 | N/A |
| 2N4407 | N/A |
| 2N5154 | N/A |
| 2N5337 | N/A |
| 2N6101 | N/A |
| 2N6488 | 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.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

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.



<http://www.centrasemi.com>

Product End of Life Notification

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

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 Corp.

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<http://www.centrasemi.com>

Product End of Life Notification

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

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@centrasemi.com.

Although Central Semiconductor Corp. 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 ***

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<http://www.centrasemi.com>

Product End of Life Notification

| | |
|--------------------|------------|
| PDN ID: | PDN01250 |
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| 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 |
| BD158 | N/A |
| BD159 | N/A |
| BD175 | N/A |
| BD176 | N/A |
| BD177 | N/A |
| BD178 | N/A |
| 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 |

*** CONTINUED ***

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<http://www.centrasemi.com>

Product End of Life Notification

| | |
|--------------------|------------|
| PDN ID: | PDN01250 |
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| 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 |
| BF469 | N/A |
| BF471 | N/A |
| 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 |

*** CONTINUED ***

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<http://www.centrasemi.com>

Product End of Life Notification

| | |
|--------------------|------------|
| PDN ID: | PDN01250 |
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| 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 |
|---------------------|-----------------------|
| 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 |
| CP230-CZT122-CT | CP260-TIP122-CT |

*** CONTINUED ***

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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 |

*** CONTINUED FROM PRIOR PAGE ***

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

| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| CP230-HTIP122-CM | N/A |
| CP230-H2N6039-CM | N/A |
| CP230-TIP122-CM | CP260-TIP122-CM |
| CP230-TIP122-CT | CP260-TIP122-CT |
| CP230-TIP122-CT20 | N/A |
| CP230-2N6039-CM | N/A |
| CP230-2N6039-CT | N/A |
| CP230-2N6039-WN | N/A |
| CP630-CEN1263-WN | CP660-TIP127-WN |
| CP630-CZT127-CT | CP660-TIP127-CT |
| CP630-HTIP127-CM | N/A |
| CP630-TIP127-CT | CP660-TIP127-CT |
| CP630-TIP127-WN | CP660-TIP127-WN |
| CP630-2N6036-CT | N/A |
| CZT122 BK | N/A |
| CZT122 TR | N/A |
| CZT127 BK | N/A |
| CZT127 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 |

*** CONTINUED ***

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.

Product End of Life Notification

| | |
|--------------------|------------|
| PDN ID: | PDN01250 |
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| 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 |
|---------------------|-----------------------|
| MJE221 | N/A |
| MJE222 | N/A |
| MJE223 | N/A |
| MJE224 | N/A |
| MJE225 | N/A |
| MJE230 | N/A |
| MJE231 | N/A |
| MJE232 | N/A |
| MJE233 | N/A |
| MJE234 | N/A |
| MJE235 | N/A |
| MJE2360T | N/A |
| MJE240 | N/A |
| MJE241 | N/A |
| MJE242 | N/A |
| MJE243 | N/A |
| MJE244 | N/A |
| 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 |

*** CONTINUED ***

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.



<http://www.centrasemi.com>

Product End of Life Notification

| | |
|--------------------|------------|
| PDN ID: | PDN01250 |
| Notification Date: | 2/10/23 |
| Last Buy Date: | Stock Only |
| 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 |
|---------------------|-----------------------|
| 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 |
| MJ11014 | N/A |
| 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 |

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

| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| PMD17K100 | N/A |
| PMD17K60 | N/A |
| PMD17K80 | N/A |
| PMD1701K | N/A |
| PMD1702K | N/A |
| PMD1703K | 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 |
| 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 |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| 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 |
| 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 |
| 2N4232 | N/A |
| 2N4233 | N/A |
| 2N4347 | N/A |
| 2N4348 | N/A |
| 2N4398 | N/A |
| 2N4399 | N/A |
| 2N4901 | N/A |
| 2N4902 | N/A |
| 2N4903 | N/A |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| 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 |
| 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 |
| 2N5496 | N/A |
| 2N5629 | N/A |
| 2N5632 | N/A |
| 2N5655 | N/A |
| 2N5656 | N/A |
| 2N5657 | N/A |
| 2N5745 | N/A |
| 2N5760 | N/A |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| 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 |
| 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 |
| 2N6107 | N/A |
| 2N6109 | N/A |
| 2N6111 | N/A |
| 2N6121 | N/A |
| 2N6122 | N/A |
| 2N6123 | N/A |
| 2N6124 | N/A |

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| Central Part Number | Suggested Replacement |
|---------------------|-----------------------|
| 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 |
| 2N6248 | N/A |
| 2N6249 | N/A |
| 2N6250 | N/A |
| 2N6251 | N/A |
| 2N6253 | N/A |
| 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 |
| 2N6384 | N/A |
| 2N6385 | N/A |
| 2N6386 | N/A |
| 2N6387 | N/A |
| 2N6388 | N/A |
| 2N6465 | N/A |

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|---------------------|-----------------------|
| 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 |
| 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 |

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| <u>Central Part Number</u> | <u>Suggested Replacement</u> |
|----------------------------|------------------------------|
|----------------------------|------------------------------|

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.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

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