

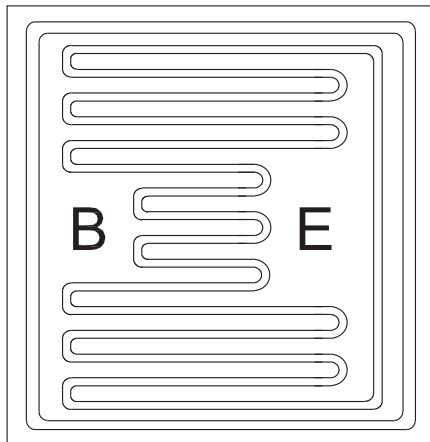
**PROCESS CP714**  
**Small Signal Transistor**  
PNP - High Current Transistor Chip



**PROCESS DETAILS**

|                          |                  |
|--------------------------|------------------|
| Process                  | EPITAXIAL PLANAR |
| Die Size                 | 40 x 40 MILS     |
| Die Thickness            | 9.0 MILS         |
| Base Bonding Pad Area    | 7.9 x 8.7 MILS   |
| Emitter Bonding Pad Area | 9.0 x 14 MILS    |
| Top Side Metalization    | Al - 30,000Å     |
| Back Side Metalization   | Au - 18,000Å     |

**GEOMETRY**



BACKSIDE COLLECTOR R1

**GROSS DIE PER 4 INCH WAFER**

6,936

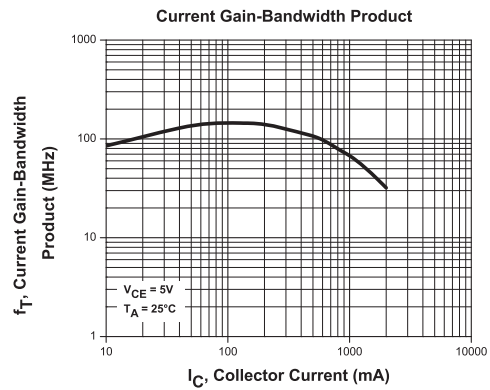
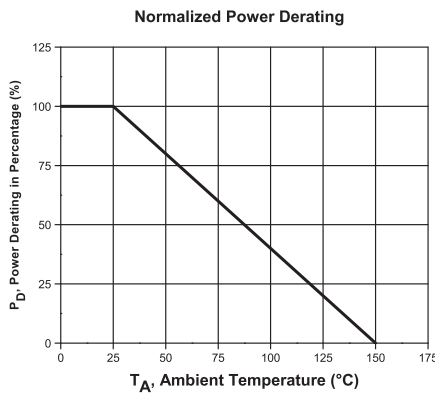
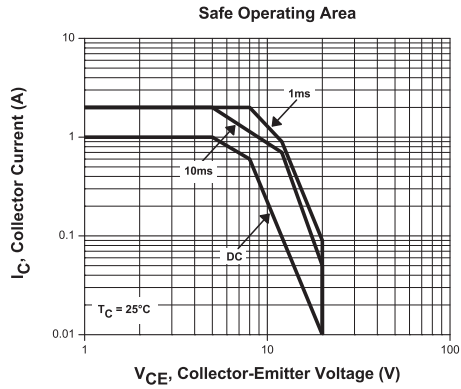
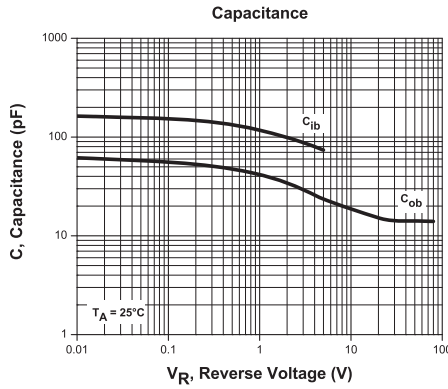
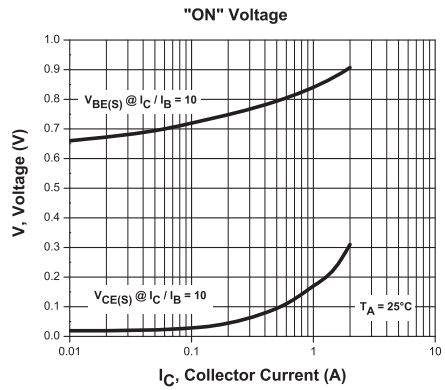
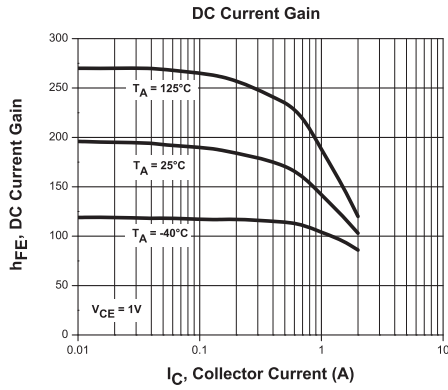
**PRINCIPAL DEVICE TYPES**

CBCP69  
CBCX69  
CZT751  
MPS750  
MPS751

R5 (22-March 2010)

# PROCESS CP714

## Typical Electrical Characteristics



R5 (22-March 2010)

## BARE DIE PACKING OPTIONS

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### BARE DIE IN TRAY (WAFFLE) PACK

**CT:** Singulated die in tray (waffle) pack.  
(example: CP211-PART NUMBER-CT)

**CM:** Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes).  
(example: CP211-PART NUMBER-CM)

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### UNSAWN WAFER

**WN:** Full wafer, unsawn, 100% tested with reject die inked.  
(example: CP211-PART NUMBER-WN)

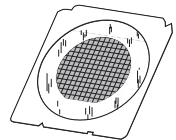
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### SAWN WAFER ON PLASTIC RING

**WR:** Full wafer, sawn and mounted on plastic ring,  
100% tested with reject die inked.  
(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications:  
[www.centrasemi.com/bdspecs](http://www.centrasemi.com/bdspecs)

## 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:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

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

# Product End of Life Notification

|                    |          |
|--------------------|----------|
| PDN ID:            | PDN00999 |
| Notification Date: | 8/03/15  |
| Last Buy Date:     | Varies   |
| Last Shipment Date | Varies   |

Summary: The purpose of this End of Life Notification is to identify the bare die devices that Central previously discontinued without notification. This list excludes standard packaged and custom devices. The discontinuance of these devices predates Central's current EOL notification process. The notification process now utilized by Central is industry standard and all future product discontinuation notifications will be issued accordingly. We apologize for any inconvenience caused.

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.**

| <u>Central Part Number</u> | <u>Replacement</u>  |
|----------------------------|---------------------|
| CPD35-CMP SH-3-WN          | CPD48V-CMP SH-3-WN  |
| CPD41-1N3600-WN            | N/A, Stock Only     |
| CPD41-1N4148-CT            | N/A, Stock Only     |
| CPD41-1N4150-CT            | N/A, Stock Only     |
| CPD42-CMR1-06-WN           | CPD69-CMR1-06M-WN   |
| CPD42-CMR1-10-WN           | CPD69-1N4007-WN     |
| CPD63-1N4148-CT            | CPD83V-1N4148-CT    |
| CPD63-1N4148-CTAN          | CPD83V-1N4148-CTAN  |
| CPD63-1N4148-WN            | CPD83V-1N4148-WN    |
| CPD63-1N4148-WS            | CPD83V-1N4148-WS    |
| CPD63-1N4448-WN            | CPD83V-1N4448-WN    |
| CPD63-1N4454-CT            | CPD83V-1N4454-CT    |
| CPD63-1N914-CT             | CPD83V-1N914-CT     |
| CPD63-1N914-WN             | CPD83V-1N914-WN     |
| CPD63-1N914-WR             | CPD83V-1N914-WR     |
| CPD63-1N914A-WN            | CPD83V-1N914A-WN    |
| CPD64-CLL459A-CT           | CPD66X-CLL459A-CT   |
| CPD64-CMPD3003-CT          | CPD66X-CMPD3003-CT  |
| CPD64-CMPD3003-WN          | CPD66X-CMPD3003-WN  |
| CPD64-1N3595-CT            | CPD66X-1N3595-CT    |
| CPD64-1N3595-WN            | CPD66X-1N3595-WN    |
| CPD64-1N3595-WR            | CPD66X-1N3595-WR    |
| CPD64-1N485B-CT            | CPD66X-1N485B-CT    |
| CPD73-CMFBR-6F-WN          | N/A, Stock Only     |
| CPD77-1N5820-WN            | CPD77X-1N5820-WN    |
| CPD81-CZSH5-40-CT          | CPD81X-CZSH5-40-CT  |
| CPD86X-CZSH5-40-CT         | CPD81X-CZSH5-40-CT  |
| CPD92-CMPD6263-CT          | CPD102X-CMPD6263-CT |
| CPD92-CMUD6263E-CT         | CPD102X-6263E-CT    |
| CPD92X-CMPD6263-WR         | CPD102X-CMPD6263-WR |
| CPD99-MBR1645-CT           | N/A, Stock Only     |
| CPZ18-CMOZ3L9-CT           | CPZ28X-CMOZ3L9-CT   |

\*\*\* CONTINUED \*\*\*

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# Product End of Life Notification

|                    |          |
|--------------------|----------|
| PDN ID:            | PDN00999 |
| Notification Date: | 8/03/15  |
| Last Buy Date:     | Varies   |
| Last Shipment Date | Varies   |

\*\*\* CONTINUED FROM PRIOR PAGE \*\*\*

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

| Central Part Number | Replacement         |
|---------------------|---------------------|
| CPZ18-CMPZ4626-CT   | CPZ28X-1N4626-CT    |
| CPZ18-CMPZ4626-WN   | CPZ28X-CMPZ4626-WN  |
| CPZ18-CMPZ5231B-CT  | CPZ28X-CMPZ5231B-CT |
| CPZ18-CMPZ5232B-CT  | CPZ28X-1N5232B-CT   |
| CPZ18-1N4622-CT     | CPZ28X-1N4622-CT    |
| CPZ18-1N4626-WN     | CPZ28X-CMPZ4626-WN  |
| CPZ18-1N5231B-CT    | CPZ28X-CMPZ5231B-CT |
| CPZ18-1N5232B-CT    | CPZ28X-1N5232B-CT   |
| CPZ18-1N5232B-CTAN  | CPZ28X-1N5232B-CT   |
| CPZ18-1N5524B-CT    | CPZ28X-1N5524B-CT   |
| CPZ18-1N751A-CT     | CPZ28X-1N751A-CT    |
| CPZ18-1N752A-CT     | N/A, Stock Only     |
| CPZ19-BZX84C39-CT   | N/A, Stock Only     |
| CPZ19-BZX84C8V2-WN  | N/A, Stock Only     |
| CPZ19-CMPZ5236B-CT  | CPZ28X-CMPZ5236B-CT |
| CPZ19-CMPZ5241B-WN  | N/A, Stock Only     |
| CPZ19-CMPZ5244B-CT  | CPZ28-CMPZ5244B-CT  |
| CPZ19-CMPZ5246B-WN  | N/A, Stock Only     |
| CPZ19-CMPZ5254B-WN  | CPZ28X-CMPZ5254B-WN |
| CPZ19-CMPZ5258B-CT  | N/A, Stock Only     |
| CPZ19-CMPZ5258B-WN  | N/A, Stock Only     |
| CPZ19-1N4753A-WN    | CPZ25-1N4753A-WN    |
| CPZ19-1N5236B-CT200 | CPZ28X-5236B-CT200  |
| CPZ19-1N5244B-CT    | CPZ28X-1N5244B-CT   |
| CPZ19-1N5258B-WN    | N/A, Stock Only     |
| CPZ19-1N6001B-CT    | CPZ28-1N6001B-CT    |
| CPZ19-1N6001B-WN    | CPZ28-1N6001B-WN    |
| CPZ28-BZX84C39-WR   | CPZ28X-BZX84C39-WR  |
| CP108-CRSH2-4-CT    | N/A, Stock Only     |
| CP108-CRSH2-5-CT    | N/A, Stock Only     |
| CP108-1N5819-CT     | N/A, Stock Only     |
| CP117-TIP112-CT     | CP230-TIP122-CT     |
| CP117-TIP121-CT     | CP230-TIP122-CT     |
| CP117-2N6045-CT     | CP127-2N6045-CT     |
| CP117-2N6300-CT     | CP127-2N6300-CT     |
| CP117-2N6301-CT     | CP127-2N6301-CT     |
| CP117-2N6301-WS     | CP127-2N6301-WS     |
| CP142-2N4240-CT     | CP212-2N4240-CT     |
| CP160-MPSA42-CT     | CP310-MPSA42-CT     |
| CP169-2N5179-WN     | N/A, Stock Only     |
| CP177-TIP50-WN      | N/A, Stock Only     |
| CP183-2N5320-CT     | CP325V-2N5320-CT    |
| CP188-BCW72-CT      | N/A, Stock Only     |

\*\*\* CONTINUED \*\*\*

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| Last Shipment Date | Varies   |

\*\*\* CONTINUED FROM PRIOR PAGE \*\*\*

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

| <u>Central Part Number</u> | <u>Replacement</u> |
|----------------------------|--------------------|
| CP188-BC237B-CT            | N/A, Stock Only    |
| CP188-CMPT5089-CT          | CP388X-2N5089-CT   |
| CP188-CMPT5089-WN          | N/A, Stock Only    |
| CP188-2N2484-CT            | CP388X-2N2484-CT   |
| CP188-2N2484-WN            | CP388X-2N2484-WN   |
| CP188-2N2920-CTJ           | N/A, Stock Only    |
| CP188-2N5088-CTO           | CP388X-2N5088-CT   |
| CP188V-BCX70K-WR           | CP388X-BCX70K-WR   |
| CP188V-2N5088-CT           | CP388X-2N5088-CT   |
| CP191-2N2219A-CT           | N/A, Stock Only    |
| CP191-2N2222A-CT           | CP191V-2N2222A-CT  |
| CP191-2N2222A-WN           | CP191V-2N2222A-WN  |
| CP191-2N2222A-WR           | CP191V-2N2222A-WR  |
| CP191-2N2222A-WS           | CP191V-2N2222A-WR  |
| CP195-2N3501-CT            | CP318V-2N3501-CT   |
| CP195-2N3501-WN            | CP318V-2N3501-WN   |
| CP195-2N5682-CT            | CP318V-2N5682-CT   |
| CP195-2N5682-WN            | CP318V-2N5682-WN   |
| CP207-2N2369A-CT           | CP396V-2N2369A-CT  |
| CP207-2N2369A-WN           | CP396V-2N2369A-WN  |
| CP237-2N3725-CT            | CP337V-2N3725-WN   |
| CP301-2N3439-CT            | CP310-2N3439-CT    |
| CP303V-CMPT8099-CT         | CP303X-CMPT8099-CT |
| CP303V-CMPT8099-WN         | CP303X-CMPT8099-WN |
| CP305-MJE182-CT            | CP325V-MJE182-CT   |
| CP314-MPS650-CT            | CP314V-MPS650-CT   |
| CP316-2N5551-CT            | CP336V-2N5551-CT   |
| CP316V-2N5551-CT           | CP336V-2N5551-CT   |
| CP316V-2N5551-CTAN         | N/A, Stock Only    |
| CP316V-2N5551-WN           | CP336V-2N5551-WN   |
| CP317-2N2857-CT            | N/A, Stock Only    |
| CP317-2N918-CT             | N/A, Stock Only    |
| CP319-CZTA44HC-CT          | CP212-CZTA44HC-CT  |
| CP319-TIP47-CT             | CP212-TIP47-CT     |
| CP319-TIP50-CT             | CP212-TIP50-CT     |
| CP324-2N7002-CM            | N/A, Stock Only    |
| CP324-2N7002-CT            | N/A, Stock Only    |
| CP324-2N7002-WN            | N/A, Stock Only    |
| CP336V-2N5551-CTAN         | CP336V-2N5551-CT   |
| CP353-2N3506-CT            | CP353V-2N3506-CT   |
| CP512-2N4033-CT            | CP705V-CZT4033-CT  |
| CP512-2N4033-WN            | CP705V-CZT4033-WN  |
| CP517-BDX54C-WS            | CP527-BDX54C-WR    |

\*\*\* CONTINUED \*\*\*

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\*\*\* CONTINUED FROM PRIOR PAGE \*\*\*

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

| <u>Central Part Number</u> | <u>Replacement</u>  |
|----------------------------|---------------------|
| CP517-TIP126-CT            | CP630-TIP127-CT     |
| CP517-2N6042-CT            | CP527-2N6042-CT     |
| CP517-2N6053-CM            | CP527-2N6053-CM     |
| CP517-2N6053-CT            | CP527-2N6053-CT     |
| CP517-2N6296-CT            | CP527-2N6296-CT     |
| CP517-2N6299-CT            | CP527-2N6299-CT     |
| CP517-2N6299-WS            | CP527-2N6299-WR     |
| CP517-2N6668-CT            | CP527-2N6668-CT     |
| CP529-CMPT2907A-WN         | N/A, Stock Only     |
| CP548-2N5116-WN            | N/A, Stock Only     |
| CP555-2N4209-WN            | CP742X-CM4209-WN    |
| CP559-2N2907A-WN           | N/A, Stock Only     |
| CP560-MPSA92-CT            | CP710V-MPSA92-CT    |
| CP560-MPSA92-WN            | CP710V-MPSA92-WN    |
| CP560-2N6520-WN            | CP710V-2N6520-WN    |
| CP584-2N5401-CTAN          | N/A, Stock Only     |
| CP584-2N5401-WN            | N/A, Stock Only     |
| CP587-2N3964-WN            | N/A, Stock Only     |
| CP588-BCW70-CT             | CP788X-BCW70-CT     |
| CP588-2N3799-WN            | CP788X-2N3799-CT    |
| CP588-2N5087-CT            | N/A, Stock Only     |
| CP588V-BC556B-WR           | N/A, Stock Only     |
| CP588V-2N2605-CT           | CP788X-2N2605-CT    |
| CP588V-2N3799-WN           | N/A, Stock Only     |
| CP588V-2N5087-CT           | CP788X-2N5087-CT    |
| CP591-2N2907A-CT           | CP591X-2N2907A-CT   |
| CP591V-2N2907A-CT          | CP591X-2N2907A-CT   |
| CP592-CMPT3906-CT          | CP792V-CMPT3906-CT  |
| CP592-2N3251-CT            | CP792V-2N3251-CT    |
| CP592-2N3906-WN            | CP792V-2N3906-WN    |
| CP701-2N5416-CT            | CP710V-2N5416-CT    |
| CP705-BC327-25-CT          | N/A, Stock Only     |
| CP705-BC327-40-CT          | N/A, Stock Only     |
| CP705-BC807-40-CT          | N/A, Stock Only     |
| CP705-BD140-CT             | N/A, Stock Only     |
| CP705-CZT4033-CT           | CP705V-CZT4033-CT   |
| CP705-D41D11-CT            | CP705V-D41D11-CT    |
| CP705-D41D11-CT200         | CP705V-D41D11-CT200 |
| CP705-2N4356-CT            | N/A, Stock Only     |
| CP705-2N4356-WN            | N/A, Stock Only     |
| CP707-MPSA64-WN            | CP727V-MPSA64-WN    |
| CP707-MPSU95-CT            | CP727V-MPSU95-CT    |
| CP710-CMPTA94-CT           | CP710V-CMPTA94-CT   |

\*\*\* CONTINUED \*\*\*

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# Product End of Life Notification

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| <b>PDN ID:</b>            | PDN00999 |
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\*\*\* CONTINUED FROM PRIOR PAGE \*\*\*

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

| <u>Central Part Number</u> | <u>Replacement</u> |
|----------------------------|--------------------|
| CP710-MJE350-CT            | N/A, Stock Only    |
| CP710-MPSA92-CT            | CP710V-MPSA92-CT   |
| CP714-MPS750-CT            | CP714V-MPS750-CT   |
| CP714-MPS751-CT            | N/A, Stock Only    |
| CP714-MPS751-WN            | N/A, Stock Only    |
| CP716-CMPT5401-CM          | N/A, Stock Only    |
| CP716-CMPT5401-CT          | N/A, Stock Only    |
| CP716-2N5401-CTAN          | N/A, Stock Only    |
| CP716V-CMPT5401-CM         | N/A, Stock Only    |
| CP716V-2N3635-CM           | CP736V-2N3635-CM   |
| CP716V-2N3635-CT           | CP736V-2N3635-CT   |
| CP716V-2N5401-CT           | CP736V-2N5401-CT   |
| CP716V-2N5401-CTAN         | CP736V-2N5401-CTAN |
| CP716V-2N5401-WN           | CP736V-2N5401-WN   |
| CP792V-2N3906-CT           | CP792V-CMPT3906-CT |

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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