

CMPTA42 NPN  
CMPTA92 PNP

**SURFACE MOUNT  
COMPLEMENTARY  
HIGH VOLTAGE  
SILICON TRANSISTORS**



**SOT-23 CASE**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMPTA42 and CMPTA92 are complementary surface mount epoxy molded silicon planar epitaxial transistors designed for high voltage applications.

**MARKING CODES: CMPTA42: C1D  
CMPTA92: C2D**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Collector-Base Voltage  
Collector-Emitter Voltage  
Emitter-Base Voltage  
Continuous Collector Current  
Power Dissipation  
Operating and Storage Junction Temperature  
Thermal Resistance

| SYMBOL         | CMPTA42 | CMPTA92     | UNITS              |
|----------------|---------|-------------|--------------------|
| $V_{CB0}$      | 300     | 300         | V                  |
| $V_{CEO}$      | 300     | 300         | V                  |
| $V_{EBO}$      | 6.0     | 5.0         | V                  |
| $I_C$          |         | 500         | mA                 |
| $P_D$          |         | 350         | mW                 |
| $T_J, T_{stg}$ |         | -65 to +150 | $^\circ\text{C}$   |
| $\theta_{JA}$  |         | 357         | $^\circ\text{C/W}$ |

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

| SYMBOL        | TEST CONDITIONS                                       | CMPTA42 |     | CMPTA92 |     | UNITS |
|---------------|---|---------|-----|---------|-----|-------|
|               |   | MIN     | MAX | MIN     | MAX |       |
| $I_{CB0}$     | $V_{CB}=200\text{V}$                                  | -       | 100 | -       | 250 | nA    |
| $I_{EBO}$     | $V_{BE}=6.0\text{V}$                                  | -       | 100 | -       | -   | nA    |
| $I_{EBO}$     | $V_{BE}=3.0\text{V}$                                  | -       | -   | -       | 100 | nA    |
| $BV_{CB0}$    | $I_C=100\mu\text{A}$                                  | 300     | -   | 300     | -   | V     |
| $BV_{CEO}$    | $I_C=1.0\text{mA}$                                    | 300     | -   | 300     | -   | V     |
| $BV_{EBO}$    | $I_E=100\mu\text{A}$                                  | 6.0     | -   | 5.0     | -   | V     |
| $V_{CE(SAT)}$ | $I_C=20\text{mA}, I_B=2.0\text{mA}$                   | -       | 0.5 | -       | 0.5 | V     |
| $V_{BE(SAT)}$ | $I_C=20\text{mA}, I_B=2.0\text{mA}$                   | -       | 0.9 | -       | 0.9 | V     |
| $h_{FE}$      | $V_{CE}=10\text{V}, I_C=1.0\text{mA}$                 | 25      | -   | 25      | -   |       |
| $h_{FE}$      | $V_{CE}=10\text{V}, I_C=10\text{mA}$                  | 40      | -   | 40      | -   |       |
| $h_{FE}$      | $V_{CE}=10\text{V}, I_C=30\text{mA}$                  | 40      | -   | 25      | -   |       |
| $f_T$         | $V_{CE}=20\text{V}, I_C=10\text{mA}, f=100\text{MHz}$ | 50      | -   | 50      | -   | MHz   |
| $C_{ob}$      | $V_{CB}=20\text{V}, I_E=0, f=1.0\text{MHz}$           | -       | 6.0 | -       | 6.0 | pF    |

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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODES:

CMPTA42: C1D  
 CMPTA92: C2D

| DIMENSIONS |        |       |             |      |
|------------|--------|-------|-------------|------|
| SYMBOL     | INCHES |       | MILLIMETERS |      |
|            | MIN    | MAX   | MIN         | MAX  |
| A          | 0.003  | 0.007 | 0.08        | 0.18 |
| B          | 0.006  | -     | 0.15        | -    |
| C          | -      | 0.005 | -           | 0.13 |
| D          | 0.035  | 0.043 | 0.89        | 1.09 |
| E          | 0.110  | 0.120 | 2.80        | 3.05 |
| F          | 0.075  |       | 1.90        |      |
| G          | 0.037  |       | 0.95        |      |
| H          | 0.047  | 0.055 | 1.19        | 1.40 |
| I          | 0.083  | 0.098 | 2.10        | 2.49 |
| J          | 0.014  | 0.020 | 0.35        | 0.50 |

SOT-23 (REV: R3)

R6 (3-February 2010)

## 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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# Product End of Life Notification

|                           |          |
|---------------------------|----------|
| <b>PDN ID:</b>            | PDN01000 |
| <b>Notification Date:</b> | 8/03/15  |
| <b>Last Buy Date:</b>     | Varies   |
| <b>Last Shipment Date</b> | Varies   |

Summary: The purpose of this End of Life Notification is to identify the standard packaged devices that Central previously discontinued without notification. This list excludes custom and bare die devices. The discontinuance of these devices predates Central's current EOL notification process. The notification process now utilized by Central is industry standard and 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 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> |
|----------------------------|--------------------|
| CBRSDSH5-40                | CBRSDSH2-40        |
| CBRSDSH5-60                | CBRSDSH2-60        |
| CBR10-010                  | CBR10-010P         |
| CBR10-020                  | CBR10-020P         |
| CBR10-040                  | CBR10-040P         |
| CBR10-080                  | CBR10-080P         |
| CBR25-010                  | CBR25-010P         |
| CBR25-020                  | CBR25-020P         |
| CBR25-040                  | CBR25-040P         |
| CBR25-060                  | CBR25-060P         |
| CBR25-080                  | CBR25-080P         |
| CBR25-100                  | CBR25-100P         |
| CBR35-010                  | CBR35-010P         |
| CBR35-020                  | CBR35-020P         |
| CBR35-040                  | CBR35-040P         |
| CBR35-060                  | CBR35-060P         |
| CBR35-100                  | CBR35-100P         |
| CCLHM080                   | CMJH080            |
| CCLHM100                   | CMJH100            |
| CCLHM120                   | CMJH120            |
| CCLHM150                   | CMJH150            |
| CCLM0035                   | N/A                |
| CCLM0130                   | CMJ0130            |
| CCLM0300                   | CMJ0300            |
| CCLM0500                   | CMJ0500            |
| CCLM0750                   | CMJ0750            |
| CCLM1000                   | CMJ1000            |
| CCLM1500                   | CMJ1500            |
| CCLM2000                   | CMJ2000            |
| CCLM2700                   | CMJ2700            |
| CCLM3500                   | CMJ3500            |
| CCLM4500                   | CMJ4500            |
| CCLM5750                   | CMJ5750            |
| CED2838E                   | N/A                |
| CLLR1-01                   | CMR1-01M           |

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

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| <b>Central Part Number</b> | <b>Replacement</b> |
|----------------------------|--------------------|
| CLLR1-02                   | CMR1-02M           |
| CLLR1-04                   | CMR1-04M           |
| CLLR1-06                   | CMR1-06M           |
| CLLR1-10                   | CMR1-10M           |
| CLLR1F-02                  | CMR1F-02M          |
| CLLR1F-06                  | CMR1F-06M          |
| CLLR1F-10                  | CMR1F-10M          |
| CLLR1U-01                  | CMR1U-01M          |
| CLLR1U-02                  | CMR1U-02M          |
| CLLR1U-04                  | CMR1U-04M          |
| CLLSH1-20                  | CMSH1-20M          |
| CLLSH1-40                  | CMSH1-40M          |
| CLLSH1-60                  | CMSH1-60M          |
| CLL4104                    | CMHZ4104           |
| CLL4116                    | CMHZ4116           |
| CLL4122                    | CMHZ4122           |
| CLL457A                    | CMHD457A           |
| CLL459A                    | CMHD459A           |
| CLL4614                    | CMHZ4614           |
| CLL4615                    | CMHZ4615           |
| CLL4617                    | CMHZ4617           |
| CLL4619                    | CMHZ4619           |
| CLL4620                    | CMHZ4620           |
| CLL4625                    | CMHZ4625           |
| CLL4626                    | CMHZ4626           |
| CLL4627                    | CMHZ4627           |
| CLL4678                    | CMHZ4678           |
| CLL4679                    | CMHZ4679           |
| CLL4680                    | CMHZ4680           |
| CLL4681                    | CMHZ4681           |
| CLL4682                    | CMHZ4682           |
| CLL4683                    | CMHZ4683           |
| CLL4684                    | CMHZ4684           |
| CLL4685                    | CMHZ4685           |
| CLL4686                    | CMHZ4686           |
| CLL4687                    | CMHZ4687           |
| CLL4688                    | CMHZ4688           |
| CLL4689                    | CMHZ4689           |
| CLL4690                    | CMHZ4690           |
| CLL4690C                   | CMHZ4690C          |
| CLL4691                    | CMHZ4691           |
| CLL4692                    | CMHZ4692           |
| CLL4693                    | CMHZ4693           |
| CLL4694                    | CMHZ4694           |
| CLL4694C                   | CMHZ4694C          |

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| <b>Central Part Number</b> | <b>Replacement</b> |
|----------------------------|--------------------|
| CLL4696                    | CMHZ4696           |
| CLL4697                    | CMHZ4697           |
| CLL4698                    | CMHZ4698           |
| CLL4699                    | CMHZ4699           |
| CLL4700                    | CMHZ4700           |
| CLL4701                    | CMHZ4701           |
| CLL4702                    | CMHZ4702           |
| CLL4703                    | CMHZ4703           |
| CLL4704                    | CMHZ4704           |
| CLL4705                    | CMHZ4705           |
| CLL4707                    | CMHZ4707           |
| CLL4708                    | CMHZ4708           |
| CLL4709                    | CMHZ4709           |
| CLL4709C                   | CMHZ4709C          |
| CLL4711                    | CMHZ4711           |
| CLL4713                    | CMHZ4713           |
| CLL4714                    | CMHZ4714           |
| CLL4715                    | CMHZ4715           |
| CLL4716                    | CMHZ4716           |
| CLL4717                    | CMHZ4717           |
| CLL4728                    | CLL4728A           |
| CLL5001                    | CMPD5001           |
| CLL5221B                   | CMHZ5221B          |
| CLL5222A                   | N/A                |
| CLL5222B                   | CMHZ5222B          |
| CMEDA-6I                   | N/A                |
| CMPD300                    | CMPD300 BK         |
| CMPD400                    | CMPD400 BK         |
| CMPTA42                    | CMPTA42E           |
| CMPTA92                    | CMPTA92E           |
| CMPT3640                   | CMPT4209           |
| CMWSH-4                    | N/A                |
| CMZ5337D                   | N/A                |
| CM2894A                    | CM4209             |
| CN1671A                    | N/A                |
| CN5281B                    | 1N5281B            |
| CN695                      | N/A                |
| CR150-005                  | N/A                |
| CR150-005R                 | N/A                |
| CR150-010                  | N/A                |
| CR150-020                  | N/A                |
| CR150-040                  | N/A                |
| CR150-040R                 | N/A                |
| CR150-080                  | N/A                |
| CR150-080R                 | N/A                |

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| Central Part Number | Replacement      |
|---------------------|------------------|
| CR250-020           | N/A              |
| CR250-080           | N/A              |
| CR250-080R          | N/A              |
| CR250-120           | N/A              |
| CR250-120R          | N/A              |
| CR250-2             | N/A              |
| CR250-3             | N/A              |
| CR250F-3            | N/A              |
| CR250F-4            | N/A              |
| CR3-005             | CR3-005GPP       |
| CR3-010             | CR3-010GPP       |
| CR3-020             | CR3-020GPP       |
| CR3-040             | CR3-040GPP       |
| CR3-060             | CR3-060GPP       |
| CR3-080             | CR3-080GPP       |
| CR3-100             | CR3-100GPP       |
| CR3-120             | CR3-120GPP       |
| CR3U-100            | N/A              |
| CR6AF2              | CR6AF2GPP        |
| CR6A4               | CR6A4GPP         |
| CSMS15              | N/A              |
| CSMS24              | N/A              |
| CSTB162             | N/A              |
| CSTB165             | N/A              |
| CSTB362             | N/A              |
| CSTB365             | N/A              |
| CSTB462             | N/A              |
| CSTB465             | N/A              |
| CSTB567             | N/A              |
| CSTB568             | N/A              |
| CSTB569             | N/A              |
| CTLDM7003T-M563D    | N/A              |
| CTLDM7120-M832D     | CTLDM7120-M832DS |
| CTLDM7181-M832D     | N/A              |
| CTLDM8120-M832D     | CTLDM8120-M832DS |
| CTLM1034-M832D      | N/A              |
| CTLM1074-M832D      | N/A              |
| CTLM3410-M832D      | N/A              |
| CTLM3474-M832D      | N/A              |
| CTLM7110-M832D      | N/A              |
| CTLM7410-M832D      | N/A              |
| CTLM8110-M832D      | N/A              |
| CTLSH1-40M322       | CTLSH1-40M322S   |
| CTLSH1-40M563       | N/A              |
| CTLSH1-40M832D      | CTLSH1-40M832DS  |

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| <b>Central Part Number</b> | <b>Replacement</b> |
|----------------------------|--------------------|
| CTLSH10-60M856             | N/A                |
| CTLSH2-40M832              | N/A                |
| CTLSH3-30M833              | CTLSH3-30M833S     |
| CTLSH5-40M833              | CTLSH5-40M833S     |
| CTLS5064-M532              | N/A                |
| CTLS5064R-M532             | N/A                |
| CTLT3410-M521              | N/A                |
| CTLT5551-M832D             | N/A                |
| CTLT7410-M521              | N/A                |
| CTLT853-M833               | CTLT853-M833S      |
| CTLT953-M833               | CTLT953-M833S      |
| CYTA44D                    | N/A                |
| CYTA4494D                  | N/A                |
| CYT5551D                   | N/A                |
| CYT5551HCD                 | N/A                |
| CYT7090LD                  | N/A                |
| CZT900K                    | N/A                |
| MMPQ2222A                  | N/A                |
| MMPQ2907A                  | N/A                |
| MMPQ3904                   | N/A                |
| MMPQ3906                   | N/A                |
| MMPQ6502                   | N/A                |
| MM4258                     | CM4209             |
| PN2894                     | PN4209             |
| PN3640                     | PN4209             |
| PN4258                     | PN4209             |
| PN5910                     | PN4209             |
| 1N277                      | N/A                |
| 1N34A                      | N/A                |
| 1N355                      | N/A                |
| 1N4444                     | 1N4148             |
| 1N4634                     | N/A                |
| 1N4944                     | 1N4946             |
| 1N5333B                    | N/A                |
| 1N5334B                    | CZ5334B            |
| 1N5335B                    | CZ5335B            |
| 1N5336B                    | CZ5336B            |
| 1N5337B                    | CZ5337B            |
| 1N5338B                    | CZ5338B            |
| 1N5339B                    | CZ5339B            |
| 1N5339C                    | N/A                |
| 1N5340B                    | CZ5340B            |
| 1N5341B                    | CZ5341B            |
| 1N5341C                    | N/A                |
| 1N5342B                    | CZ5342B            |

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|---------------------|-------------|
| 1N5342C             | N/A         |
| 1N5343B             | CZ5343B     |
| 1N5343C             | N/A         |
| 1N5344B             | CZ5344B     |
| 1N5345B             | CZ5345B     |
| 1N5346B             | CZ5346B     |
| 1N5347B             | CZ5347B     |
| 1N5348B             | CZ5348B     |
| 1N5349B             | CZ5349B     |
| 1N5350B             | CZ5350B     |
| 1N5350C             | N/A         |
| 1N5351B             | CZ5351B     |
| 1N5351C             | N/A         |
| 1N5352B             | CZ5352B     |
| 1N5355B             | CZ5355B     |
| 1N5356B             | CZ5356B     |
| 1N5357B             | CZ5357B     |
| 1N5358B             | CZ5358B     |
| 1N5359B             | CZ5359B     |
| 1N5360B             | CZ5360B     |
| 1N5361B             | CZ5361B     |
| 1N5362B             | CZ5362B     |
| 1N5364B             | CZ5364B     |
| 1N5365B             | CZ5365B     |
| 1N5368B             | CZ5368B     |
| 1N5370B             | CZ5370B     |
| 1N5373B             | CZ5373B     |
| 1N5374B             | CZ5374B     |
| 1N5375B             | CZ5375B     |
| 1N5376B             | CZ5376B     |
| 1N5377B             | CZ5377B     |
| 1N5378B             | CZ5378B     |
| 1N5380B             | CZ5380B     |
| 1N5382B             | CZ5382B     |
| 1N5383B             | CZ5383B     |
| 1N5384B             | CZ5384B     |
| 1N5386B             | CZ5386B     |
| 1N5387B             | CZ5387B     |
| 1N5388B             | CZ5388B     |
| 1N5416              | 1N5419      |
| 1N5417              | 1N5419      |
| 1N5418              | 1N5419      |
| 1N5559B             | 1N4736A     |
| 1N5565B             | 1N4742A     |
| 1N5586B             | 1N4763A     |

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|---------------------|-------------|
| 1N60                | N/A         |
| 1N6263              | CMDD6263    |
| 1N6373              | 1.5CE6.8A   |
| 1N64                | N/A         |
| 1N645               | CN645       |
| 1N647               | CN647       |
| 1N649               | CN649       |
| 1N67A               | N/A         |
| 1N774               | N/A         |
| 1N821A              | CMKTC825A   |
| 1N823A              | CMKTC825A   |
| 1N823A DO-7         | CMKTC825A   |
| 1N825A              | CMKTC825A   |
| 1N825A DO-7         | CMKTC825A   |
| 1N827A              | CMKTC825A   |
| 1N827A DO-7         | CMKTC825A   |
| 1N829A              | CMKTC825A   |
| 1N829A DO-7         | CMKTC825A   |
| 1N87A               | N/A         |
| 1N888               | N/A         |
| 1N914B              | 1N4448      |
| 2N2411              | CM4209      |
| 2N2412              | CM4209      |
| 2N2609              | 2N5116      |
| 2N2646              | 2N4870      |
| 2N2840              | N/A         |
| 2N2894              | CM4209      |
| 2N3012              | CM4209      |
| 2N3055H             | N/A         |
| 2N3249              | CM4209      |
| 2N3546              | CM4209      |
| 2N3724A             | 2N3725A     |
| 2N3829              | CM4209      |
| 2N4208              | CM4209      |
| 2N4209              | CM4209      |
| 2N5057              | CM4209      |
| 2N5114              | 2N5116      |
| 2N5484              | 2N5485 H    |
| 2N5545              | N/A         |
| 2N5771              | PN4209      |
| 2N5950              | 2N5951      |
| 2N869               | CM4209      |
| 2N869A              | CM4209      |

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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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# Product End of Life Notification

|                           |          |
|---------------------------|----------|
| <b>PDN ID:</b>            | PDN01000 |
| <b>Notification Date:</b> | 8/03/15  |
| <b>Last Buy Date:</b>     | Varies   |
| <b>Last Shipment Date</b> | Varies   |

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

**Central Part Number**                      **Replacement**

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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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