

2N5114
2N5115
2N5116

SILICON
P-CHANNEL JFETS



TO-18 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5114, 2N5115, and 2N5116 are silicon P-Channel JFETs designed for switching applications.

MARKING: FULL PART NUMBER

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

Gate-Drain Voltage
Gate-Source Voltage
Gate Current
Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

V_{GD} 30
 V_{GS} 30
 I_G 50
 P_D 500
 T_J, T_{stg} -65 to +200

UNITS

V
V
mA
mW
 $^\circ\text{C}$

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

| SYMBOL | TEST CONDITIONS | 2N5114 | | 2N5115 | | 2N5116 | | UNITS |
|---------------|--|--------|-----|--------|-----|--------|-----|---------------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | |
| I_{GSS} | $V_{GS}=20V$ | - | 500 | - | 500 | - | 500 | pA |
| I_{GSS} | $V_{GS}=20V, T_A=150^\circ\text{C}$ | - | 1.0 | - | 1.0 | - | 1.0 | μA |
| I_{DSS} | $V_{DS}=18V$ | 30 | 90 | - | - | - | - | mA |
| I_{DSS} | $V_{DS}=15V$ | - | - | 15 | 60 | 5.0 | 25 | mA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=12V$ | - | 500 | - | - | - | - | pA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=7.0V$ | - | - | - | 500 | - | - | pA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=5.0V$ | - | - | - | - | - | 500 | pA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=12V, T_A=150^\circ\text{C}$ | - | 1.0 | - | - | - | - | μA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=7.0V, T_A=150^\circ\text{C}$ | - | - | - | 1.0 | - | - | μA |
| $I_{D(OFF)}$ | $V_{DS}=15V, V_{GS}=5.0V, T_A=150^\circ\text{C}$ | - | - | - | - | - | 1.0 | μA |
| BV_{GSS} | $I_G=1.0\mu\text{A}$ | 30 | - | 30 | - | 30 | - | V |
| $V_{GS(OFF)}$ | $V_{DS}=15V, I_D=1.0\text{nA}$ | 5.0 | 10 | 3.0 | 6.0 | 1.0 | 4.0 | V |
| $V_{GS(f)}$ | $I_G=1.0\text{mA}$ | - | 1.0 | - | 1.0 | - | 1.0 | V |
| $V_{DS(ON)}$ | $I_D=15\text{mA}$ | - | 1.3 | - | - | - | - | V |
| $V_{DS(ON)}$ | $I_D=7.0\text{mA}$ | - | - | - | 0.8 | - | - | V |
| $V_{DS(ON)}$ | $I_D=3.0\text{mA}$ | - | - | - | - | - | 0.6 | V |
| $r_{DS(ON)}$ | $I_D=1.0\text{mA}, V_{GS}=0$ | - | 75 | - | 100 | - | 150 | Ω |
| $r_{ds(ON)}$ | $V_{GS}=0, I_D=0, f=1.0\text{kHz}$ | - | 75 | - | 100 | - | 150 | Ω |
| C_{iss} | $V_{DS}=15V, V_{GS}=0, f=1.0\text{MHz}$ | - | 25 | - | 25 | - | 25 | pF |
| C_{rss} | $V_{GS}=12V, V_{DS}=0, f=1.0\text{MHz}$ | - | 7.0 | - | - | - | - | pF |
| C_{rss} | $V_{GS}=7.0V, V_{DS}=0, f=1.0\text{MHz}$ | - | - | - | 7.0 | - | - | pF |
| C_{rss} | $V_{GS}=5.0V, V_{DS}=0, f=1.0\text{MHz}$ | - | - | - | - | - | 7.0 | pF |

R1 (4-March 2014)

2N5114
2N5115
2N5116

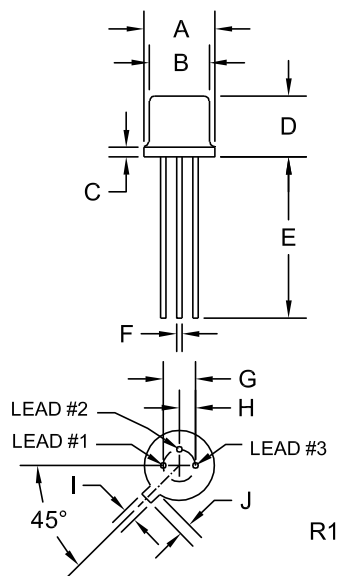
SILICON
P-CHANNEL JFETS



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

| SYMBOL | TEST CONDITIONS | 2N5114 | | 2N5115 | | 2N5116 | | UNITS |
|-----------|---|--------|-----|--------|-----|--------|-----|-------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | |
| t_{on} | $V_{DD}=10\text{V}, V_{GS}=12\text{V}, I_D=15\text{mA}, R_L=580\Omega$ | - | 16 | - | - | - | - | ns |
| t_{on} | $V_{DD}=6.0\text{V}, V_{GS}=7.0\text{V}, I_D=7.0\text{mA}, R_L=743\Omega$ | - | - | - | 30 | - | - | ns |
| t_{on} | $V_{DD}=6.0\text{V}, V_{GS}=5.0\text{V}, I_D=3.0\text{mA}, R_L=1.8\text{k}\Omega$ | - | - | - | - | - | 42 | ns |
| t_{off} | $V_{DD}=10\text{V}, V_{GS}=12\text{V}, I_D=15\text{mA}, R_L=580\Omega$ | - | 21 | - | - | - | - | ns |
| t_{off} | $V_{DD}=6.0\text{V}, V_{GS}=7.0\text{V}, I_D=7.0\text{mA}, R_L=743\Omega$ | - | - | - | 38 | - | - | ns |
| t_{off} | $V_{DD}=6.0\text{V}, V_{GS}=5.0\text{V}, I_D=3.0\text{mA}, R_L=1.8\text{k}\Omega$ | - | - | - | - | - | 60 | ns |

TO-18 CASE - MECHANICAL OUTLINE



| SYMBOL | DIMENSIONS | | | |
|---------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A (DIA) | 0.209 | 0.230 | 5.31 | 5.84 |
| B (DIA) | 0.178 | 0.195 | 4.52 | 4.95 |
| C | - | 0.030 | - | 0.76 |
| D | 0.170 | 0.210 | 4.32 | 5.33 |
| E | 0.500 | - | 12.70 | - |
| F (DIA) | 0.016 | 0.019 | 0.41 | 0.48 |
| G (DIA) | 0.100 | | 2.54 | |
| H | 0.050 | | 1.27 | |
| I | 0.036 | 0.046 | 0.91 | 1.17 |
| J | 0.028 | 0.048 | 0.71 | 1.22 |

TO-18 (REV: R1)

LEAD CODE:

- 1) Source
- 2) Gate
- 3) Drain

MARKING: FULL PART NUMBER

R1 (4-March 2014)

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.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

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

Product End of Life Notification

| | |
|---------------------------|----------|
| PDN ID: | PDN01000 |
| 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 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.

| Central Part Number | Replacement |
|----------------------------|--------------------|
| 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 ***

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: | PDN01000 |
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| Last Shipment Date | Varies |

*** CONTINUED FROM PRIOR PAGE ***

| Central Part Number | Replacement |
|----------------------------|--------------------|
| 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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| Central Part Number | Replacement |
|----------------------------|--------------------|
| 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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*** CONTINUED FROM PRIOR PAGE ***

| 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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| Central Part Number | Replacement |
|----------------------------|--------------------|
| 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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| Central Part Number | Replacement |
|---------------------|-------------|
| 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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| Central Part Number | Replacement |
|---------------------|-------------|
| 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 |

*** CONTINUED ***

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Product End of Life Notification

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

*** CONTINUED FROM PRIOR PAGE ***

| <u>Central Part Number</u> | <u>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. Please email your requests to engineering@centrasemi.com.

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