

2N5484  
2N5485  
2N5486

SILICON  
N-CHANNEL JFET



TO-92 CASE



www.centrasemi.com

The CENTRAL SEMICONDUCTOR 2N5484, 2N5485, and 2N5486 are silicon N-Channel JFETs designed for RF amplifier and mixer applications. These devices will operate well in the VHF/UHF frequency range.

MARKING: FULL PART NUMBER

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

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

| SYMBOL         |             | UNITS            |
|----------------|-------------|------------------|
| $V_{DG}$       | 25          | V                |
| $V_{GS}$       | 25          | V                |
| $I_D$          | 30          | mA               |
| $I_G$          | 10          | mA               |
| $P_D$          | 310         | mW               |
| $T_J, T_{stg}$ | -65 to +150 | $^\circ\text{C}$ |

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

| SYMBOL        | TEST CONDITIONS                                | 2N5484 |     | 2N5485 |     | 2N5486 |     | UNITS         |
|---------------|--|--------|-----|--------|-----|--------|-----|---------------|
|               |  | MIN    | MAX | MIN    | MAX | MIN    | MAX |               |
| $I_{GSS}$     | $V_{GS}=20\text{V}$                            | -      | 1.0 | -      | 1.0 | -      | 1.0 | nA            |
| $I_{GSS}$     | $V_{GS}=20\text{V}, T_A=100^\circ\text{C}$     | -      | 0.2 | -      | 0.2 | -      | 0.2 | $\mu\text{A}$ |
| $I_{DSS}$     | $V_{DS}=15\text{V}$                            | 1.0    | 5.0 | 4.0    | 10  | 8.0    | 20  | mA            |
| $BV_{GSS}$    | $I_G=1.0\mu\text{A}$                           | 25     | -   | 25     | -   | 25     | -   | V             |
| $V_{GS(off)}$ | $V_{DS}=15\text{V}, I_D=10\text{nA}$           | 0.3    | 3.0 | 0.5    | 4.0 | 2.0    | 6.0 | V             |
| $ y_{fs} $    | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{kHz}$ | 3.0    | 6.0 | 3.5    | 7.0 | 4.0    | 8.0 | mS            |
| $ y_{os} $    | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{kHz}$ | -      | 50  | -      | 60  | -      | 75  | $\mu\text{S}$ |
| $C_{iss}$     | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | -      | 5.0 | -      | 5.0 | -      | 5.0 | pF            |
| $C_{oss}$     | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | -      | 2.0 | -      | 2.0 | -      | 2.0 | pF            |
| $C_{rss}$     | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | -      | 1.0 | -      | 1.0 | -      | 1.0 | pF            |
| $R_{e(yis)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=100\text{MHz}$ | -      | 100 | -      | -   | -      | -   | $\mu\text{S}$ |
| $R_{e(yis)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | -      | -   | -      | 1.0 | -      | 1.0 | mS            |
| $R_{e(yos)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=100\text{MHz}$ | -      | 75  | -      | -   | -      | -   | $\mu\text{S}$ |
| $R_{e(yos)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | -      | -   | -      | 100 | -      | 100 | $\mu\text{S}$ |
| $R_{e(yfs)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=100\text{MHz}$ | 2.5    | -   | -      | -   | -      | -   | mS            |
| $R_{e(yfs)}$  | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | -      | -   | 3.0    | -   | 3.5    | -   | mS            |

R1 (2-May 2014)

2N5484  
2N5485  
2N5486

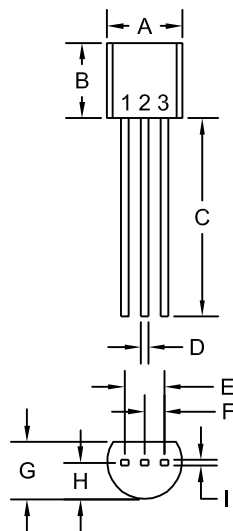
SILICON  
N-CHANNEL JFET



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

| SYMBOL   | TEST CONDITIONS  | 2N5484 |         | 2N5485 |     | 2N5486 |     | UNITS |
|----------|--|--------|---------|--------|-----|--------|-----|-------|
|          |  | MIN    | MAX     | MIN    | MAX | MIN    | MAX |       |
| NF       | $V_{DS}=15\text{V}$ , $V_{GS}=0$ , $R_G=1\text{K}\Omega$ , $f=1.0\text{KHz}$         | -      | 2.5     | -      | 2.5 | -      | 2.5 | dB    |
| NF       | $V_{DS}=15\text{V}$ , $I_D=1.0\text{mA}$ , $R_G=1\text{K}\Omega$ , $f=100\text{MHz}$ | -      | 3.0     | -      | -   | -      | -   | dB    |
| NF       | $V_{DS}=15\text{V}$ , $I_D=1.0\text{mA}$ , $R_G=1\text{K}\Omega$ , $f=200\text{MHz}$ | -      | 4.0 TYP | -      | -   | -      | -   | dB    |
| NF       | $V_{DS}=15\text{V}$ , $I_D=4.0\text{mA}$ , $R_G=1\text{K}\Omega$ , $f=100\text{MHz}$ | -      | -       | -      | 2.0 | -      | 2.0 | dB    |
| NF       | $V_{DS}=15\text{V}$ , $I_D=4.0\text{mA}$ , $R_G=1\text{K}\Omega$ , $f=400\text{MHz}$ | -      | -       | -      | 4.0 | -      | 4.0 | dB    |
| $G_{PS}$ | $V_{DS}=15\text{V}$ , $I_D=1.0\text{mA}$ , $f=100\text{MHz}$                         | 16     | 25      | -      | -   | -      | -   | dB    |
| $G_{PS}$ | $V_{DS}=15\text{V}$ , $I_D=1.0\text{mA}$ , $f=200\text{MHz}$                         | -      | 14 TYP  | -      | -   | -      | -   | dB    |
| $G_{PS}$ | $V_{DS}=15\text{V}$ , $I_D=4.0\text{mA}$ , $f=100\text{MHz}$                         | -      | -       | 18     | 30  | 18     | 30  | dB    |
| $G_{PS}$ | $V_{DS}=15\text{V}$ , $I_D=4.0\text{mA}$ , $f=400\text{MHz}$                         | -      | -       | 10     | 20  | 10     | 20  | dB    |

TO-92 CASE - MECHANICAL OUTLINE



| SYMBOL  | DIMENSIONS |       |             |      |
|---------|------------|-------|-------------|------|
|         | INCHES     |       | MILLIMETERS |      |
|         | MIN        | MAX   | MIN         | MAX  |
| A (DIA) | 0.175      | 0.205 | 4.45        | 5.21 |
| B       | 0.170      | 0.210 | 4.32        | 5.33 |
| C       | 0.500      | -     | 12.70       | -    |
| D       | 0.016      | 0.022 | 0.41        | 0.56 |
| E       | 0.100      |       | 2.54        |      |
| F       | 0.050      |       | 1.27        |      |
| G       | 0.125      | 0.165 | 3.18        | 4.19 |
| H       | 0.080      | 0.105 | 2.03        | 2.67 |
| I       | 0.015      |       | 0.38        |      |

TO-92 (REV: R1)

LEAD CODE:

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

MARKING:

FULL PART NUMBER

R1

R1 (2-May 2014)

## 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)

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<http://www.centrasemi.com>

# Product End of Life Notification

|                           |          |
|---------------------------|----------|
| <b>PDN ID:</b>            | PDN01067 |
| <b>Notification Date:</b> | 10/03/17 |
| <b>Last Buy Date:</b>     | N/A      |
| <b>Last Shipment Date</b> | N/A      |

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have 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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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

|                           |          |
|---------------------------|----------|
| <b>PDN ID:</b>            | PDN01067 |
| <b>Notification Date:</b> | 10/03/17 |
| <b>Last Buy Date:</b>     | N/A      |
| <b>Last Shipment Date</b> | N/A      |

Summary: The 2N5485 silicon N-Channel JFET is discontinued and is now classified as 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 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.

| <u>Central Part Number</u> | <u>Replacement</u> |
|----------------------------|--------------------|
| 2N5485                     | 2N5486      H      |

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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# Mouser Electronics

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