2N5484
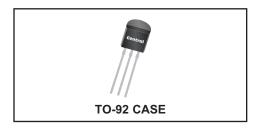**2N5485**
2N5486

SILICON
N-CHANNEL JFET

TO-92 CASE

Central™
Semiconductor Corp.

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°C)

	SYMBOL		UNITS
Drain-Gate Voltage	V_{DG}	25	V
Gate-Source Voltage	V_{GS}	25	V
Drain Current	I_D	30	mA
Continuous Gate Current	I_G	10	mA
Power Dissipation	P_D	310	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

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

R1 (2-May 2014)

| 2N5484 |
| 2N5485 |
| 2N5486 |
| |
| SILICON |
| N-CHANNEL JFET |

Central
Semiconductor Corp.

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

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

TO-92 CASE - MECHANICAL OUTLINE

R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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 (2-May 2014)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

Central
Semiconductor Corp.™

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

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www.centralsemi.com/wwreps

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

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Central Semiconductor Corp.
http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01067
Notification Date:	10/03/17
Last Buy Date:	N/A
Last Shipment Date	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.

Central Semiconductor Corp.

http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01067
Notification Date:	10/03/17
Last Buy Date:	N/A
Last Shipment Date	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.

Central Part Number	Replacement	
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@centralsemi.com.