2N5484
2N5485
2N5486

SILICON
N-CHANNEL JFET

TO-92 CASE

Central Semiconductor Corp.

www.centralsemi.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°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)

		2N5484		**2N5485**		**2N5486**		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**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

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

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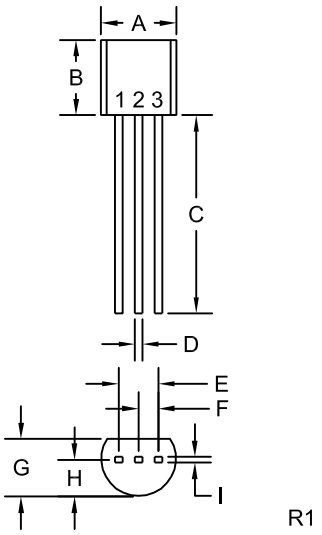
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
NF	V_{DS}=15V, V_{GS}=0, R_G=1MΩ, f=1.0KHz	-	2.5	-	2.5	-	2.5	dB
NF	V_{DS}=15V, I_D=1.0mA, R_G=1KΩ, f=100MHz	-	3.0	-	-	-	-	dB
NF	V_{DS}=15V, I_D=1.0mA, R_G=1KΩ, f=200MHz	-	4.0TYP	-	-	-	-	dB
NF	V_{DS}=15V, I_D=4.0mA, R_G=1KΩ, 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)