

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N5484 THRU 2N5486

N CHANNEL JUNCTION
FIELD EFFECT TRANSISTOR

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5484 Series types are Silicon N Channel J-FETs designed for RF amplifier and mixer applications. These devices will operate well in the VHF/UHF frequency range.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	UNIT
Gate-Drain Voltage	V _{GD} 25 V
Gate-Source Voltage	V _{GS} 25 V
Drain Current	I _D 30 mA
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 ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N5484		2N5485		2N5486		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
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 =1.0 μA	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	3000	6000	3500	7000	4000	8000	μmhos
Y _{os}	V _{DS} =15V, V _{GS} =0, f=1.0kHz		50		60		75	μmhos
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		-		-	μmhos
R _{e(yis)}	V _{DS} =15V, V _{GS} =0, f=400MHz		-		1000		1000	μmhos
R _{e(yos)}	V _{DS} =15V, V _{GS} =0, f=100MHz		75		-		-	μmhos
R _{e(yos)}	V _{DS} =15V, V _{GS} =0, f=400MHz		-		100		100	μmhos
R _{e(yfs)}	V _{DS} =15V, V _{GS} =0, f=100MHz	2500		-		-		μmhos
R _{e(yfs)}	V _{DS} =15V, V _{GS} =0, f=400MHz	-		3000		3500		μmhos
NF	V _{DS} =15V, V _{GS} =0, R _G =1.0MegΩ, f=1.0kHz		2.5		2.5		2.5	dB
NF	V _{DS} =15V, I _D =1.0mA, R _G =1.0kΩ, f=100MHz		3.0		-		-	dB
NF	V _{DS} =15V, I _D =1.0mA, R _G =1.0kΩ, f=200MHz	4.0TYP		-	-	-	-	dB
NF	V _{DS} =15V, I _D =4.0mA, R _G =1.0kΩ, f=100MHz		-		2.0		2.0	dB
NF	V _{DS} =15V, I _D =4.0mA, R _G =1.0kΩ, 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	14TYP		-		-		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

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