

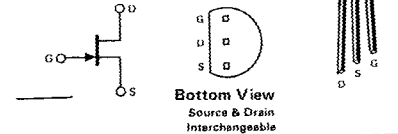
MICRO ELECTRONICS

2N5484
2N5485
2N5486

2N5484, 2N5485 and 2N5486 are N-Channel Junction Field Effect Transistors. They are mainly designed for VHF / UHF amplifiers, mixers, oscillators and analog switches.

TO-92

Plastic



ABSOLUTE MAXIMUM RATINGS

Drain-Gate Voltage	V _{DG}	25V
Source-Gate Voltage	V _{SG}	25V
Drain Current	I _D	30mA
Forward Gate Current	I _{G(F)}	10mA
Total Device Dissipation @ 25°C	P _{tot}	360mW
Operating & Storage Junction Temperature	T _j , T _{stg}	-55 to +150°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise noted)

Characteristic	2N5484		2N5485		2N5486		Unit	Test Conditions	
	Min	Max	Min	Max	Min	Max			
I _{GSS} Gate Reverse Current		-1.0		-1.0		-1.0	nA	V _{GS} = -20 V, V _{DS} = 0 T _A = +100°C	
BV _{GSS} Gate-Source Breakdown Voltage	-25		-25		-25		V	I _G = -1 μA, V _{DS} = 0	
V _{GS(off)} Gate-Source Cutoff Voltage	-0.3	-3.0	-0.5	-4.0	-2.0	-6.0		V _{DS} = 15 V, I _D = 10 mA	
I _{DSS} Saturation Drain Current	1.0	5.0	4.0	10	8.0	20	mA	V _{DS} = 15 V, V _{GS} = 0 (Note 1)	
g _{fs} Common-Source Forward Transconductance	3,000	6,000	3,500	7,000	4,000	8,000	μmhos	f = 1 kHz	
g _{os} Common-Source Output Conductance		50		60		75			f = 100 MHz
Re _(v_{fs}) Common-Source Forward Transconductance	2,500		3,000		3,500				f = 400 MHz
Re _(v_{os}) Common-Source Output Conductance		75		100		100			f = 100 MHz
C _{iss} Common-Source Input Capacitance		5.0		5.0		5.0	pF	f = 400 MHz	
C _{rss} Common-Source Reverse Transfer Capacitance		1.0		1.0		1.0			f = 1 MHz
NF Noise Figure		2.5		2.5		2.5	dB	V _{DS} = 15 V, V _{GS} = 0, R _G = 1 MΩ f = 1 kHz	
		3.0						V _{DS} = 15 V, I _D = 1 mA, R _G = 1 kΩ f = 100 MHz	
				2.0		2.0		V _{DS} = 15 V, I _D = 4 mA, R _G = 1 kΩ f = 100 MHz	
				4.0		4.0		V _{DS} = 15 V, I _D = 4 mA, R _G = 1 kΩ f = 400 MHz	

NOTE:

1 Pulse Test PW 300 μs, duty cycle ≤ 3%

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