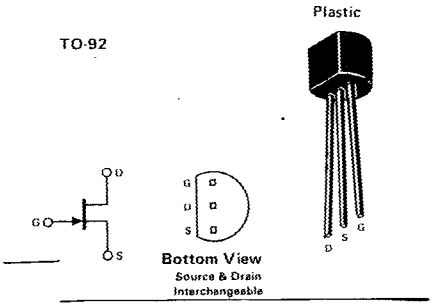
MICRO ELECTRONICS

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.



ABSOLUTE MAXIMUM RATINGS

Drain-Gate Voltage	VDG	25V
Source-Gate Voltage	VSG	25V
Drain Current	ID	30mA
Forward Gate Current	IG(F)	10mA
Total Device Dissipation @ 25°C	Ptot	360mW
Operating & Storage Junction Temperature	Tj,Tstg	-55 to +150°C

ELECTRICAL CHARACTERISTICS (Ta=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	
			-200		-200		-200			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 nA	
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	V_{DS}= 15 V, V_{GS}=0	f= 1 kHz
g_{os}	Common-Source Output Conductance		50		60		75			
$Re_{(y_{fs})}$	Common-Source Forward Transconductance	2,500								f= 100 MHz
				3,000		3,500				f= 400 MHz
$Re_{(y_{os})}$	Common-Source Output Conductance		75							f= 100 MHz
					100		100			f=400 MHz
C_{iss}	Common-Source Input Capacitance		5.0		5.0		5.0	pF		f= 1 MHz
C_{rss}	Common-Source Reverse Transfer Capacitance		1.0		1.0		1.0			
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	
					4.0		4.0			f= 400 MHz

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

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