Field Effect Transistors Maximum Ratings at T_A = 25°C (Observe MOS Handling) ▲

ECG Type	Description and Application	Trans-conductance gfs Typ μmhos	Gate to Source Cutoff Voltage V_{GS} (off) Max V	Zero-Gate Voltage Drain Current I_{DSS} mA Min - Max	Gate To Source Breakdown Voltage BV_{GSS} Min V	Input Cap C_{iss} Max pf	Transfer Cap C_{rss} Max pf	Device Diss. P_D Max mW	Package Case/Fig./Basing
ECG220 ▲	MOSFET, N-Ch, VHF Amp/ Mix, NF 5dB Max at 200 MHz	7,500	8	5 - 25	20	7	0.35	330	TO-72 Fig. T4
ECG221 ▲	Dual Gate MOSFET, N-Ch, VHF Amp/Mix, NF 5dB Max at 200 MHz	15,000	6	18 typ	20	5.5	0.03	400	
ECG222 ▲	Dual Gate MOSFET, N-Ch, VHF Amp/Mix, NF 6dB Max at 200 MHz Gate Protected	12,000	4	5 - 35	20	6 typ	0.03	330	
ECG452	JFET, N-Ch, UHF/VHF Amp, NF 4dB at 400 MHz	5,500	6	5 - 15	30	4	0.8	300	
ECG454 ▲	Dual Gate MOSFET, N-Ch, UHF/VHF Amp, NF 7dB at 900 MHz Gate Protected	15,000	4	6 - 30	25	---	0.03	360	
ECG456	JFET, N-Ch, Gen Purp Amp/ Sw	3,500	6	2 - 6	30	6	2	300	
ECG459	JFET, N-Ch, AF Amp/ Chopper/Sw	4,500	6	2 - 10	50	6	3	300	
ECG460	JFET, P-Ch, AF Amp	2,500	6	2 - 6	20	20	---	300	
ECG312	JFET, N-Ch, VHF Amp/Mix NF 4dB Max at 400 MHz	5,500	6	5 - 15	30	4.5	1.0	360	TO-92 Fig. T16
ECG326	JFET, P-Ch, Gen Purp AF Amp, NF 2.5dB Max at 100 Hz	3,000	7.5	2 - 9	60	7	2	310	
ECG451	JFET, N-Ch, UHF/VHF Amp, NF 4dB at 400 MHz	4,000	4	4 - 10	25	5	1.2	310	
ECG457	JFET, N-Ch, Gen Purp Amp/ Sw	3,000	5	1 - 5	25	6	3	310	
ECG458	JFET, N-Ch, Gen Purp, Lo Noise Audio Amp	12,000	1.5	1 - 3	50	13 (typ)	2.6 (typ)	250	
ECG489	JFET, P-Ch, Gen Purp, Chopper	11,000	2	2 - 15	30	32	8	360	
ECG455 ▲	Dual Gate MOSFET, N-Ch, TV UHF RF Amp, 900 MHz Gate Protected	22,000	G_1 = 2 G_2 = 0.7	0.5 - 8 (V_{G2S} = 4V)	20 ($B_{V\ DSX}$)	3.5	0.03	200	RF-15A Fig. T49-1
ECG461	Matched Dual JFET, N-Ch, DC Amp/Sampler/Chopper	3,500	4.5	0.5 - 8	50	6	2	400	TO-71 Fig. T3
ECG462 ▲	MOSFET, N-Ch, AF Amp, NF 3.5dB at 10 kHz	2,250	7	2 - 6	20	8	0.8	300	TO-18 Fig. T2
ECG453	JFET, N-Ch, VHF/FM Amp, NF 3.5dB at 100 MHz	7,000	---	12 - 24	18	---	0.65	200	SP-92 Fig. T13-1•

DISCONTINUED

DISCONTINUED

ECG	1	2	3	4
220	D	S	G	CASE
221	D	G2	G1	S,CASE
222	D	G2	G1	S,CASE
452	S	D	G	CASE
454	D	G2	G1	S,CASE
456*	D	S	G	CASE
459*	S	D	G	CASE
460*	S	G	D	CASE

* D & S Interchangeable

ECG	1	2	3
312*	G	S	D
326*	S	D	G
451	D	S	G
457*	D	S	G
458	D	G	S
489	D	G	S

* D & S Interchangeable

1. S1 4. Blank 7. G2
2. D1 5. S2 8. Blank
3. G1 6. D2

• TO-92 Alt. Fig. T16

▲ Refer to MOSFET Handling Precautions - Page 1-34

Package Outlines - See Page 1-91