

# Transistors (cont'd) (Maximum Ratings at $T_C = 25^\circ\text{C}$ Unless Otherwise Noted)

ECG Type	Description and Application	Collector To Base Volts BV <sub>CB0</sub>	Collector To Emitter Volts BV <sub>CEO</sub>	Base to Emitter Volts BV <sub>EB0</sub>	Max. Collector Current I <sub>C</sub> Amps	Max. Device Diss. P <sub>D</sub> Watts	Freq. in MHz f <sub>t</sub>	Current Gain h <sub>FE</sub>	Package	
									Case	Fig. No.
ECG193A	PNP-Si, AF PO (Compl to ECG192A)	70	70 (CES)	5	.5	.6 (T <sub>A</sub> = 25°C)	120	120 min	T-16HS	T22*
ECG194	NPN-Si, Gen Purp HV Amp, Hi Speed Sw	180	160	4	.6	.350 (T <sub>A</sub> = 25°C)	100	100 typ	TO-92	T16
ECG195A	NPN-Si, RF Pwr Amp/Driver (P <sub>O</sub> 3.5 W min, 50 MHz, 12 V)	70	70 (CER)	4	1.5	8	150	30 min	TO-39	T6
ECG196	NPN-Si, AF Pwr Output (Compl to ECG197)	90	80 (CER)	5	7	50 (T <sub>C</sub> = 25°C) 1.8 (T <sub>A</sub> = 25°C)	.800 min	20 min	TO-220	T41
ECG197	PNP-Si, AF Pwr Output (Compl to ECG196)	90	80 (CER)	5	7	50 (T <sub>C</sub> = 25°C) 1.8 (T <sub>A</sub> = 25°C)	.800 min	20 min	TO-220	T41
ECG198	NPN-Si, HV AF, Sw	500	500 (CES)	5	1	40 (T <sub>C</sub> = 25°C) 2 (T <sub>A</sub> = 25°C)	20	80 typ	TO-220	T41
ECG199	NPN-Si, Lo Noise Hi Gain Preamp	70	50	5	.1	.360 (T <sub>A</sub> = 25°C)	90 min	400	TO-92	T16*
ECG210	NPN-Si, AF Output, Sw (Compl to ECG211)	90	75	5	1	6.25 (T <sub>C</sub> = 25°C) 1.33 (T <sub>A</sub> = 50°C)	200	120 min	TO-202	T38
ECG211	PNP, Si, AF Output, Sw (Compl to ECG210)	90	75	5	1	6.25 (T <sub>C</sub> = 25°C) 1.33 (T <sub>A</sub> = 25°C)	200	120 min	TO-202	T38
ECG213	PNP-Ge, Hi Current/Power	75	65	40	30	170	.270	80 typ	TO-36	T29
ECG214	NPN-Si, Darlington Dr, Sw, Series Pass, t <sub>f</sub> = 1.8 μsec typ	70	60	6	10	60	---	2000 min	TO-3PJ	T48-1
ECG215	NPN-Si, Darlington Dr, Sw, Series Pass, t <sub>f</sub> = 1.6 μsec typ	110	100	6	8	60	---	1500 min	TO-3PJ	T48-1
ECG216	NPN-Si, Hi Speed Sw, Core Driver, t <sub>d</sub> = 5 ns, t <sub>r</sub> = 15 ns, t <sub>s</sub> = 35 ns, t <sub>f</sub> = 20 ns typ	80	50	6	1.5	1	300	60 min	TO-237	T17
ECG217	PNP-Si, Hi Speed Sw, Amp, t <sub>d</sub> = 10 ns, t <sub>r</sub> = 30 ns, t <sub>s</sub> = 60 ns, t <sub>f</sub> = 30 ns max	40	40	5	1	1	175	40 min	TO-237	T17
ECG218	PNP-Si, AF Pwr Output	90	80	7	3	25	3 min	20 min	TO-66	T25
ECG219	PNP-Si, AF Output, Sw (Compl to ECG130)	100	70 (CER)	7	15	150	4 min	20 min	TO-3	T28
ECG219MCP	Matched Compl Pair-Contains one each ECG130 (NPN) and ECG219 (PNP)	100	70 (CER)	7	15	150	4 min	20 min	TO-3	T28
ECG220 thru ECG222	See FET Selector Guide Page 1-65	---	---	---	---	---	---	---	---	---
ECG224	NPN-Si, Final RF Pwr Output (P <sub>O</sub> 4 W, 50 MHz)	60	60 (CEV)	2.5	2	10	200	60 typ	TO-39F	T23
ECG225	NPN-Si, AF Video & Sw	450	350	7	1	10	15	40 min	TO-39F	T23
ECG226 ECG226MP*	PNP-Ge, AF Pwr Output	35	35 (CER)	6	2	12	.450	125 typ	TC-9A	T26
ECG227	NPN-Si, HV Amp, Video Output	300	300	7	.1	1	50	40 min	TO-237	T17
ECG228A	NPN-Si, Hi Speed Sw, Linear Amp, AF/Video Output	450	350	7	1	10 (T <sub>C</sub> = 25°C) 1.75 (T <sub>A</sub> = 25°C)	15	40 typ	TO-202M	T39

Notes: \* MP - Matched pair

# Frequency at which common emitter current gain is 70.0% of low frequency gain

• When alternate packages are shown it indicates a change is in progress. Although only one package is available both packages will be shown as long as the obsolete package may be encountered in the field.

Package Outlines - See Page 1-91

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