

# 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>CE0</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.
<b>ECG290A</b> <b>ECG290AMP</b>	PNP-Si, AF Pwr Amp (Compl to ECG289A) Matched Compl Pair-Contains one each ECG289A (NPN) and ECG290A (PNP)	100	80	5	.5	.500 (T <sub>A</sub> = 25°C)	120	100 min	TO-92	T16
<b>ECG291</b>	NPN-Si, Pwr Amp, Sw (Compl to ECG292)	130	120	5	4	40	4 min	75 typ	TO-220	T41
<b>ECG292</b> <b>ECG292MCP</b>	PNP-Si, Pwr Amp, Sw (Compl to ECG291) Matched Compl Pair-Contains one each ECG291 (NPN) and ECG292 (PNP)	130	120	5	4	40	4 min	75 typ	TO-220	T41
<b>ECG293</b> <b>ECG293MP*</b>	NPN-Si, AF Pwr Amp (Compl to ECG294)	60	50	5	1	1 (Heat Sink) .75 (T <sub>A</sub> = 25°C)	200	120 min	T-16	T20
<b>ECG294</b>	PNP-Si, AF Pwr Amp (Compl to ECG293)	60	50	5	1	1 (Heat Sink) .75 (T <sub>A</sub> = 25°C)	200	120 min	T-16	T20
<b>ECG295</b>	NPN-Si, RF Output/Driver	75	40	5	1	5	150 min	20 min	TO-126	T45
<b>ECG297</b> <b>ECG297MP*</b>	NPN-Si, AF Driver, Pwr Amp (Compl to ECG298)	80	80	5	1 peak	.75 (T <sub>A</sub> = 25°C)	120	130 min	T-16	T20
<b>ECG298</b>	PNP-Si, AF Driver/Pwr Amp (Compl to ECG297)	80	80	5	1 peak	.75 (T <sub>A</sub> = 25°C)	120	130 min	T-16	T20
<b>ECG300</b> <b>ECG300MP*</b>	NPN-Si, AF Pwr Output (Compl to ECG307)	50	40	5	1.5	7	70	90 min	TO-202	T38
<b>ECG302</b>	NPN-Si, RF Driver/Pwr Amp	100	50	6	1.5 peak	8	80	200 min	TO-202J	T37
<b>ECG304A</b>	Transistor Kit See Page 61	---	---	---	---	---	---	---	---	---
<b>ECG306</b>	NPN-Si, RF Driver/Pwr Amp	100	50	6	1.5 peak	8	80	200 min	TO-202J	T37
<b>ECG307</b>	NPN-Si, AF Pwr Output (Compl to ECG300)	50	40	5	1.5	7	70	90 min	TO-202	T38
<b>ECG311</b>	NPN-Si, VHF/UHF Osc, Amp, Driver	55	30	3.5	.4	5	800 min	25 min	TO-39	T6
<b>ECG312</b>	See FET Selector Guide Page 1-65	--	---	---	---	---	---	---	---	---
<b>ECG313</b>	NPN-Si, VHF Tuner, RF Amp	30	30	4	20 mA	.15 (T <sub>A</sub> = 25°C)	400 min	25 min	RF-15	T49
<b>ECG315</b>	NPN-Si, RF Driver	100	50	6	1	.75 (T <sub>A</sub> = 25°C)	80	200 typ	SC-51	T19
<b>ECG316</b>	NPN-Si, Lo Noise UHF Amp (NF 4.5 dB max, 450 MHz)	30	15	3.5	50 mA	.200 (T <sub>A</sub> = 25°C)	1400	25 min	TO-72	T4
<b>ECG317</b>	NPN-Si, RF Pwr Output (P <sub>O</sub> 70 W, 30 MHz)	36	36 (CES)	4	15	220	---	10 min	RF-50F	T58
<b>ECG318</b>	NPN-Si, RF Pwr Output (P <sub>O</sub> 50 W, 30 MHz)	36	36 (CES)	4	6	80	---	5 min	RF-50F	T58
<b>ECG319P</b>	NPN-Si, AGC Controlled IF Amp (Includes Metal Shield)	40	30	4	50 mA	.5 (T <sub>A</sub> = 25°C)	300 min	35 typ	TO-92	T16
<b>ECG320</b>	NPN-Si, RF Pwr Output (P <sub>O</sub> 40 W, 175 MHz)	36	36 (CES)	4	6	80	200 min	5 min	RF-50SS	T55
<b>ECG320F</b>	NPN-Si, RF Pwr Out (P <sub>O</sub> 40 W, 175 MHz)	36	18	4	6	80	200 min	5 min	RF-38F	T57
<b>ECG321</b>	NPN-Si, Horiz Defl	1600	700	5	1.5	15 (T <sub>C</sub> = 25°C)	---	1.5 min	TO-66	T25
<b>ECG323</b>	PNP-Si, AF Pwr Amp (Compl to ECG324)	120	100	5	2	1 (T <sub>A</sub> = 25°C)	30	50 min	TO-39	T6

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