Transistors (cont'd) (Maximum Ratings at $T_C = 25°C$ Unless Otherwise Noted)

ECG Type	Description and Application	Collector To Base Volts BV_{CBO}	Collector To Emitter Volts BV_{CEO}	Base to Emitter Volts BV_{EBO}	Max. Collector Current I_C Amps	Max. Device Diss. P_D Watts	Freq. in MHz f_t	Current Gain h_{FE}	Package Case	Package Fig. No.
ECG36 **ECG36MP***	NPN-Si, Pwr Amp, Hi Speed Switch (Compl to ECG37)	160	140	6	12	100	15	60 min	TO-3PJ	T48-1
ECG37 **ECG37MCP**	PNP-Si, Pwr Amp, Hi Speed Switch (Compl to ECG36) Matched Compl Pair-Contains one each of ECG36 (NPN) and ECG37 (PNP)	160	140	6	12	100	15	60 min	TO-3PJ	T48-1
ECG38	PNP-Si, HV AF Pwr Amp, Hi Speed Sw, $t_f = .6$ μsec (Compl to ECG175) DISCONTINUED	400	350	6	2 cont. 5 peak	35	20	50 typ	TO-66	T25
ECG39	PNP-Si, HV AF Pwr Amp (Compl to ECG157)	300	300	3	.500	20	10	80 typ	TO-126	T45
ECG40	**Dual** NPN-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter DISCONTINUED	100	100	5	50 mA	.200/unit .400 total ($T_A = 25°C$)	150	400 min	SIP-5	T20-1
ECG41	**Dual** PNP-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter	100	100	5	50 mA	.200/unit .400 total ($T_A = 25°C$)	150	400 min	SIP-5	T20-1
ECG42	**Dual** NPN-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter	50	50	5	.100	.200/unit .400 total ($T_A = 25°C$)	150	400 min	SIP-5	T20-1
ECG43	**Dual** PNP-Si, Hi Gain, Lo Noise Differential Amp, Common Emitter DISCONTINUED	50	50	5	.100	.200/unit .400 total ($T_A = 25°C$)	100	400 min	SIP-5	T20-1
ECG44	**Dual** NPN-Si, Hi Gain, Lo Noise, Bias Amp (Common Base)	100	100	5	.100	.200/unit .400 total ($T_A = 25°C$)	100	400 min	SIP-5	T20-1
ECG45	**Dual** PNP-Si, Hi Gain, Lo Noise, Bias Amp (Common Base)	100	100	5	.100	.200/unit .400 total ($T_A = 25°C$)	100	400 min	SIP-5	T20-1
ECG46	NPN-Si, Darlington Preamp, Driver, Gen Purp Amp	100	100	12	.500	.625 ($T_A = 25°C$)	200	10000 min	TO-92	T16
ECG47	NPN-Si, Hi Gain, Lo Noise Amp	45	45	6	.200	.350	140	500 min	TO-92	T16
ECG48	NPN-Si, Darlington Hi Current Gen Purp Amp, Switch	60	50 (CES)	12	1	1 ($T_A = 25°C$)	100 min	25000	TO-92M	T18
ECG49	NPN-Si, Gen Purp AF Pwr Out, Driver (Compl to ECG50)	125	100	4	2	10	150	100 typ	TO-202	T38
ECG50	PNP-Si, Gen Purp AF Pwr Amp, Driver (Compl to ECG49)	125	100	4	2	10	150	100 typ	TO-202	T38
ECG51	NPN-Si, HV, Hi Speed Switch, $t_f = .7$ μsec typ	700	400	9	4	75	4 min	25 typ	TO-220	T41
ECG52	NPN-Si, HV, Hi Speed Switch, $t_f = .2$ μsec typ	750	450	6	5	125	---	10 typ	TO-3	T28
ECG53	NPN-Si, HV, Hi Speed Switch, $t_f = .7$ μsec typ	850	400	9	15	175	6 min	12 typ	TO-3	T28
ECG54 **ECG54MP***	NPN-Si, AF Power Amp (Compl to ECG55)	150	150	5	8	50	70	100 typ	TO-220	T41
ECG55 **ECG55MCP**	PNP-Si, AF Power Amp (Compl to ECG54) Matched Compl Pair-Contains one each of ECG54 (NPN) and ECG55 (PNP)	150	150	5	8	50	85	100 typ	TO-220	T41
ECG56	NPN-Si, Hi Gain, Non-Darlington Amp, Switch, Pass Reg.	100	80	6	3	30	15	500 min	TO-220	T41

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