

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

ECG Type	Description and Application	Collector To Base Volts $BV_{CBO}$	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	Fig. No.
ECG85	NPN-Si, Sw, Gen Purp Amp	70	70 (CES)	4	.4	.6 ( $T_A = 25^\circ\text{C}$ )	200 min	120 min	TO-92	T16
ECG86	NPN-Si, Hi Gain DC Regulator, Amp	200	150	6	5	50	15	400 min	TO-3	T28
ECG87 ECG87MP*	NPN-Si, Hi Pwr Linear Amp (Compl to ECG88)	250	250 (CEX)	5	10	200	3	20 min	TO-3	T28
ECG88 ECG88MP* ECG88MCP	PNP-Si, Hi Pwr Linear Amp (Compl to ECG87) Matched Compl Pair-Contains one each ECG87 (NPN) and ECG88 (PNP)	250	250 (CEX)	5	10	200	3	20 min	TO-3	T28
ECG89	NPN-Si, Horiz Output with Damper Diode - Page 1-78	1500	600	6	7	50	---	5 min	TO-3	T28
ECG90	NPN-Si, Hi Gain, Gen Purp Amp (Compl to ECG91)	120	120	5	50 mA	.75 ( $T_A = 25^\circ\text{C}$ )	350	400 min	TO-92M	T18
ECG91	PNP-Si, Hi Gain, Gen Purp Amp (Compl to ECG90)	120	120	5	50 mA	.75 ( $T_A = 25^\circ\text{C}$ )	150	400 min	TO-92M	T18
ECG92	NPN-Si, Audio Pwr Amp, Hi Speed Sw (Compl to ECG93)	200	200	6	15	150	20	120 typ	TB-35	T44-1
ECG93 ECG93MCP	PNP-Si, Audio Pwr Amp, Hi Speed Sw (Compl to ECG92) Matched Compl Pair-Contains one each ECG92 (NPN) and ECG93 (PNP)	200	200	6	15	150	20	120 typ	TB-35	T44-1
ECG94	NPN-Si, Gen Purp Pwr DC Regulator	300	300	5	5	100	2.5 min	30 min	TO-3	T28
ECG96	NPN-Si, HV Amp, Sw, Isolated Stud	250	250	6	3	70	40	90 min	TO-59 (Isolated)	T31
ECG96	NPN-Si, Medium Pwr Amp, Sw, Isolated Stud	100	100	6	7	60	30 min	60 min	TO-59 (Isolated)	T31
ECG97	NPN-Si, HV Darlington Pwr Amp, Fast Sw, $t_f = .5 \mu\text{sec}$	500	400	8	10	150	---	40 min	TO-3	T28
ECG98	NPN-Si, HV Darlington Pwr Amp, Fast Sw, $t_f = .6 \mu\text{sec}$	700	500	8	20	175	---	40 min	TO-3	T28
ECG99	NPN-Si, HV Darlington Pwr Amp, Fast Sw, $t_f = 1 \mu\text{sec}$	600	400	8	50	250	---	25 min	TO-3	T28
ECG100	PNP-Ge, RF/IF Amp, Osc, Mix	25	20 (CER)	20	.3	.150 ( $T_A = 25^\circ\text{C}$ )	5 #	40 typ at 455 KHz	TO-5	T5
ECG101	NPN-Ge, RF/IF Amp, Osc, Mix	25	20 (CER)	20	.3	.150 ( $T_A = 25^\circ\text{C}$ )	5 #	40 typ at 455 KHz	TO-5	T5
ECG102	PNP-Ge, AF Driver, Preamp, Pwr Output (Compl to ECG103)	30	16 (CER)	20	.3	.150 $T_A = 25^\circ\text{C}$	2	90 typ	TO-5	T5
ECG102A	PNP-Ge, AF Driver, Preamp, Pwr Output (Compl to ECG103A)	32	32 (CES)	12	.5	.900 ( $T_A = 25^\circ\text{C}$ )	2.3	120 typ	TO-1	T1
ECG103	NPN-Ge, AF Driver, Preamp, Pwr Output (Compl to ECG102)	30	16 (CER)	20	.250	.150 ( $T_A = 25^\circ\text{C}$ )	2 #	90 typ at 1 KHz	TO-5	T5
ECG103A	NPN-Ge, AF Driver, Preamp, Pwr Output (Compl to ECG102A)	32	32 (CES)	10	.5	.340 ( $T_A = 25^\circ\text{C}$ )	2.5	105 typ	TO-1	T1
ECG104 ECG104MP*	PNP-Ge, AF Pwr Output	50	35 (CER)	20	7	90	10 KHz #	90 typ	TO-3	T28
ECG105	PNP-Ge, AF Pwr Output	50	35 (CER)	20	15	100	10 KHz #	90 typ	TO-36	T29
ECG106	PNP-Si, RF/IF Amp, Osc, Mix	35	15	1	75 mA	.250 ( $T_A = 25^\circ\text{C}$ )	500	20 min	TO-18	T2

Notes: \* MP - Matched pair

# Frequency at which common emitter current 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