

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

ECG Type	Description and Application	Collector To Base Volts $BV_{CB0}$	Collector To Emitter Volts $BV_{CE0}$	Base to Emitter Volts $BV_{EB0}$	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.
<b>ECG107</b>	NPN-Si, UHF/VHF Amp, Osc, Mix, IF Amp	35	35	5	50 mA	.250 ( $T_A = 25^\circ\text{C}$ )	800 min	70 typ	TO-92	T16
<b>ECG108</b>	NPN-Si, RF/IF/Video Amp, Osc, Mix, VHF/UHF	30	15	2	50 mA	.600 ( $T_A = 25^\circ\text{C}$ )	800 min	20 min	TO-92	T16
<b>ECG121</b> <b>ECG121MP*</b>	PNP-Ge, AF Pwr Output	65	45 (CER)	15	7.0	30	22 KHz #	80 typ	TO-3	T28
<b>ECG123</b>	NPN-Si, AF Preamp, Driver Video Amp, Sync Sep	60	30	5	.8	.800 ( $T_A = 25^\circ\text{C}$ )	250	150 typ	TO-39	T6
<b>ECG123A</b>	NPN-Si, AF/RF Amp, Sw	75	40	6	.8	.500 ( $T_A = 25^\circ\text{C}$ )	300	200 typ	TO-18	T2
<b>ECG123AP</b>	NPN-Si, AF/RF Amp, Driver (Compl to ECG159)	75	40	6	.6	.500 ( $T_A = 25^\circ\text{C}$ )	300	200 typ	TO-92	T16
<b>ECG124</b>	NPN-Si, HV Audio Pwr Output	300	300	5	.150	20	30	100 typ	TO-66	T25
<b>ECG126A</b>	PNP-Ge, RF/IF Amp, Osc, Mix	15	15	3	50 mA	300 mW ( $T_A = 25^\circ\text{C}$ )	250	40 typ	TO-18	T2
<b>ECG127</b>	PNP-Ge, Horiz & Vert Defl, Pwr Output	320	320 (CES)	2	10	40	1	15 min	TO-3	T28
<b>ECG128</b>	NPN-Si, AF Preamp, Driver, Output, Video Amp (Compl to ECG129)	120	80	7	1	1 ( $T_A = 25^\circ\text{C}$ )	120	90 min	TO-39	T6
<b>ECG128P</b>	NPN-Si, Gen Purp Amp, Sw (Compl to ECG129P)	100	80	7	1	1	100	100 min	TO-237	T17
<b>ECG129</b> <b>ECG129MCP</b>	PNP-Si, AF Preamp, Driver, Output, Video Amp (Compl to ECG128) Matched Compl Pair-Contains one each ECG128 (NPN) and ECG129 (PNP)	90	80	7	1	1 ( $T_A = 25^\circ\text{C}$ )	120	90 min	TO-39	T6
<b>ECG129P</b>	PNP-Si, Gen Purp Amp, Sw (Compl to ECG128P)	80	80	7	1	1	150	100 min	TO-237	T17
<b>ECG130</b> <b>ECG130MP*</b>	NPN-Si, AF Pwr Amp (Compl to ECG219)	100	60	7	15	115	.800	40 typ	TO-3	T28
<b>ECG131</b> <b>ECG131MP*</b>	PNP-Ge, AF Pwr Output (Compl to ECG155)	32	20	10	3 peak	6 ( $T_C = 63^\circ\text{C}$ )	1	110 typ	TC-9	T27
<b>ECG152</b> <b>ECG152MP*</b>	NPN-Si, AF Pwr Output (Compl to ECG153)	60	60	5	7	50	10	60 typ	TO-220	T41
<b>ECG153</b> <b>ECG153MCP</b>	PNP-Si, AF Pwr Output (Compl to ECG152) Matched Compl Pair-Contains one each ECG152 (NPN) and ECG153 (PNP)	60	60	5	7	50	10	60 typ	TO-220	T41
<b>ECG154</b>	NPN-Si, Video Output Amp	300	300	7	.5	1.0 ( $T_A = 25^\circ\text{C}$ ) 7.0 ( $T_C = 25^\circ\text{C}$ )	40	60 typ	TO-39	T6
<b>ECG155</b>	NPN-Ge, AF Pwr Amp (Compl to ECG131)	32	20	10	3 peak	7.5	1	110 typ	TC-9	T27
<b>ECG157</b>	NPN-Si, HV AF Pwr Amp (Compl to ECG39)	300	300	3	.5	20.8	10	30 min	TO-126	T45
<b>ECG158</b>	PNP-Ge, AF Pwr Amp	32	32	10	1	1.6	1.5	90 typ	TO-1	T1
<b>ECG159</b> <b>ECG159MCP</b>	PNP-Si, AF Preamp, Driver, Sw (Compl to ECG123AP) Matched Compl Pair-Contains one each ECG123AP (NPN) and ECG159 (PNP)	80	80	5	1	.600 ( $T_A = 25^\circ\text{C}$ )	200	180 typ	TO-92	T16
<b>ECG160</b>	PNP-Ge, RF/IF Amp, Osc, Mix	30	20 (CES)	.5	10 mA	.200 ( $T_A = 25^\circ\text{C}$ )	400	20 typ	TO-72	T4
<b>ECG161</b>	NPN-Si, Video IF Amp	45	45 (CES)	4.5	50 mA	.180 ( $T_A = 25^\circ\text{C}$ )	800	60 typ	TO-72	T4

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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 Outlines - See Page 1-91