

# 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.
<b>ECG58</b>	NPN-Si, Hi Power Audio Output (Compl to ECG59)	200	200	6	17	200	20	20 min	TB-35	T44-1
<b>ECG59</b>	PNP-Si, Hi Power Audio Output (Compl to ECG58)	200	200	6	17	200	20	20 min	TB-35	T44-1
<b>ECG60</b> <b>ECG60MP*</b>	NPN-Si, Power Amp, AF PO, Gen Purp (Compl to ECG61)	140	140	5	20	250	2	30 typ	TO-3	T28
<b>ECG61</b> <b>ECG61MP*</b> <b>ECG61MCP</b>	PNP-Si, Power Amp, AF PO, Gen Purp (Compl to ECG60) Matched Compl Pair-Contains one each of ECG60 (NPN) and ECG61 (PNP)	140	140	5	20	250	2	30 typ	TO-3	T28
<b>ECG63</b>	NPN-Si, UHF/Microwave Amp/Mixer G <sub>pE</sub> 7.5 dB @ 2 GHz NF 4 dB @ 2 GHz	20	12	3	40 mA	400 mW	5 GHz typ	40	RF-19A	T49-3
<b>ECG64</b>	NPN-Si, UHF/Microwave Amp/Hi Speed Sw G <sub>pE</sub> 10 dB @ 1 GHz NF 2 dB typ @ 1 GHz	25	15	3	30 mA	350 mW	4.5 GHz typ	60	RF-19A	T49-3
<b>ECG65</b>	NPN-Si, UHF/Microwave Amp, CATV, MATV	20	15	2	25 mA	180 mW	5 GHz typ	30 typ	RF-19	T49-2
<b>ECG66</b>	See FET Selector Guide Page 1-65	---	---	---	---	---	---	---	---	---
<b>ECG67</b>	See FET Selector Guide Page 1-65	---	---	---	---	---	---	---	---	---
<b>ECG68</b> <b>ECG68MCP</b>	PNP-Si, Gen Purp Hi Pwr Amp (Compl to ECG388) Matched Compl Pair-Contains one each of ECG388 (NPN) and ECG68 (PNP)	400	250	5	16	250	4 min	30 typ	TO-3	T28
<b>ECG69</b>	NPN-Si, UHF/VHF Amp, Osc, Mixer	35	35	4	50 mA	.25 (T <sub>A</sub> = 25°C)	800 min	70 typ	TO-92	T16
<b>ECG70</b>	NPN-Si, HV Pwr Amp, Switch	180	150	6	50	250	30 min	30 min	TO-63	T35
<b>ECG71</b>	NPN-Si, Hi Current Amp, Fast Switch	150	90	7	20	200	20	20 min	TO-63	T35
<b>ECG72</b>	NPN-Si, Hi Current Amp, Fast Switch	120	100	6	10	115	30	30 min	TO-61 (Isolated)	T33
<b>ECG74</b>	NPN-Si, Gen Purp Amp, Sw	100	100	6	7	60	30	60 min	TO-59	T32
<b>ECG75</b>	NPN-Si, Hi Pwr Amp, Sw	100	80	8	5	50	50 min	40 min	TO-111	T30
<b>ECG76</b> <b>ECG76MP*</b>	NPN-Si, CATV Broadband Amp	50	30	5	.4	5	1800	30 min	TO-117	T50
<b>ECG77</b>	NPN-Si, CATV Broadband Amp	50	30	5	.4	3.5	1800	30 min	TO-39	T6
<b>ECG78</b>	NPN-Si, RF PO, CB, 27 MHz, 3 W	36	18	4	.6	5	---	5 min	TO-202M	T39
<b>ECG79</b>	NPN-Si, RF PO, CB, 27 MHz	36	18	4	2	10	---	5 min	TO-202M	T39
<b>ECG81</b>	<b>Dual</b> NPN-Si, Switch, DC to VHF Amp	75	40	6	.6	2 total (T <sub>C</sub> = 25°C) .6 total (T <sub>A</sub> = 25°C)	250 min	100 min	TO-78	T12
<b>ECG82</b>	<b>Dual</b> PNP-Si, Switch, DC to VHF	60	60	5	.6	2 total (T <sub>C</sub> = 25°C) .6 total (T <sub>A</sub> = 25°C)	200 min	100 min	TO-78	T12

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