

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. |
| ECG193A | PNP-Si, AF PO (Compl to ECG192A) | 70 | 70 (CES) | 5 | .5 | .6 (T _A = 25°C) | 120 | 120 min | T-16HS | T22* |
| ECG194 | NPN-Si, Gen Purp HV Amp, Hi Speed Sw | 180 | 160 | 4 | .6 | .350 (T _A = 25°C) | 100 | 100 typ | TO-92 | T16 |
| ECG195A | NPN-Si, RF Pwr Amp/Driver (P _o 3.5 W min, 50 MHz, 12 V) | 70 | 70 (CER) | 4 | 1.5 | 8 | 150 | 30 min | TO-39 | T6 |
| ECG196 | NPN-Si, AF Pwr Output (Compl to ECG197) | 90 | 80 (CER) | 5 | 7 | 50 (T _C = 25°C) 1.8 (T _A = 25°C) | .800 min | 20 min | TO-220 | T41 |
| ECG197 | PNP-Si, AF Pwr Output (Compl to ECG196) | 90 | 80 (CER) | 5 | 7 | 50 (T _C = 25°C) 1.8 (T _A = 25°C) | .800 min | 20 min | TO-220 | T41 |
| ECG198 | NPN-Si, HV AF, Sw | 500 | 500 (CES) | 5 | 1 | 40 (T _C = 25°C) 2 (T _A = 25°C) | 20 | 80 typ | TO-220 | T41 |
| ECG199 | NPN-Si, Lo Noise Hi Gain Preamp | 70 | 50 | 5 | .1 | .360 (T _A = 25°C) | 90 min | 400 | TO-92 | T16* |
| ECG210 | NPN-Si, AF Output, Sw (Compl to ECG211) | 90 | 75 | 5 | 1 | 6.25 (T _C = 25°C) 1.33 (T _A = 50°C) | 200 | 120 min | TO-202 | T38 |
| ECG211 | PNP, Si, AF Output, Sw (Compl to ECG210) | 90 | 75 | 5 | 1 | 6.25 (T _C = 25°C) 1.33 (T _A = 25°C) | 200 | 120 min | TO-202 | T38 |
| ECG213 | PNP-Ge, Hi Current/Power | 75 | 65 | 40 | 30 | 170 | .270 | 80 typ | TO-36 | T29 |
| ECG214 | NPN-Si, Darlington Dr, Sw, Series Pass, t _f = 1.8 μsec typ | 70 | 60 | 6 | 10 | 60 | --- | 2000 min | TO-3PJ | T48-1 |
| ECG215 | NPN-Si, Darlington Dr, Sw, Series Pass, t _f = 1.6 μsec typ | 110 | 100 | 6 | 8 | 60 | --- | 1500 min | TO-3PJ | T48-1 |
| ECG216 | NPN-Si, Hi Speed Sw, Core Driver, t _d = 5 ns, t _r = 15 ns, t _s = 35 ns, t _f = 20 ns typ | 80 | 50 | 6 | 1.5 | 1 | 300 | 60 min | TO-237 | T17 |
| ECG217 | PNP-Si, Hi Speed Sw, Amp, t _d = 10 ns, t _r = 30 ns, t _s = 60 ns, t _f = 30 ns max | 40 | 40 | 5 | 1 | 1 | 175 | 40 min | TO-237 | T17 |
| ECG218 | PNP-Si, AF Pwr Output | 90 | 80 | 7 | 3 | 25 | 3 min | 20 min | TO-66 | T25 |
| ECG219 | PNP-Si, AF Output, Sw (Compl to ECG130 | 100 | 70 (CER) | 7 | 15 | 150 | 4 min | 20 min | TO-3 | T28 |
| ECG219MCP | Matched Compl Pair-Contains one each ECG130 (NPN) and ECG219 (PNP) | | | | | | | | | |
| ECG220 thru ECG222 | See FET Selector Guide Page 1-57 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ECG224 | NPN-Si, Final RF Pwr Output (P _o 4 W, 50 MHz) | 60 | 60 (CEV) | 2.5 | 2 | 10 | 200 | 60 typ | TO-39F | T23 |
| ECG225 | NPN-Si, AF Video & Sw | 450 | 350 | 7 | 1 | 10 | 15 | 40 min | TO-39F | T23 |
| ECG226 ECG226MP* | PNP-Ge, AF Pwr Output | 35 | 35 (CER) | 6 | 2 | 12 | .450 | 125 typ | TC-9A | T26 |
| ECG227 | NPN-Si, HV Amp, Video Output | 300 | 300 | 7 | .1 | 1 | 50 | 40 min | TO-237 | T17 |
| ECG228A | NPN-Si, Hi Speed Sw, Linear Amp, AF/Video Output | 450 | 350 | 7 | † | 10 (T _C = 25°C) 1.75 (T _A = 25°C) | 15 | 40 typ | TO-202M | T39 |

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 1-78