

# 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. |
| ECG2363              | NPN-Si, Gen Purp Amp (Compl to ECG2364)                                   | 60                                 | 50                                    | 6                                | 2                                 | 1                             | 150                | 200 min               | TO-92M  | T18      |
| ECG2364              | PNP-Si, Gen Purp Amp (Compl to ECG2363)                                   | 60                                 | 50                                    | 6                                | 2                                 | 1                             | 150                | 200 min               | TO-92M  | T18      |
| ECG2365              | NPN-Si, Horiz Out, HV, Sw $t_f = .2 \mu\text{sec Max}$                    | 1500                               | 800                                   | 6                                | 12                                | 180                           | ---                | 8 min                 | TO-3PL  | T48-2    |
| ECG2366              | PNP-Si, Video Out, Horiz Dr. (Compl to ECG399)                            | 300                                | 300                                   | 5                                | .1                                | .9                            | 50                 | 100 min               | T-16    | T20      |
| ECG2367              | NPN-Si, Digital w/Resistor (4.7K), Sw, Drvr (Compl to ECG2368)            | 50                                 | 50                                    | 6                                | .1                                | .3                            | 200                | 30 min                | SP-92   | T13-2    |
| ECG2368              | PNP-Si, Digital w/Resistor (4.7K), Sw, Drvr (Compl to ECG2367)            | 50                                 | 50                                    | 6                                | .1                                | .3                            | 200                | 30 min                | SP-92   | T13-2    |
| ECG2369              | NPN-Si, Digital w/Resistor (4.7K/47K), Sw, Drvr (Compl to ECG2370)        | 50                                 | 50                                    | 6                                | .1                                | .3                            | 200                | 30 min                | SP-92   | T13-2    |
| ECG2370              | PNP-Si, Digital w/Resistor (4.7K/47K), Sw, Drvr (Compl to ECG2369)        | 50                                 | 50                                    | 6                                | .1                                | .3                            | 200                | 30 min                | SP-92   | T13-2    |
| ECG2371 thru ECG2399 | See FET Selector Guide Page 1-65  | ---                                | ---                                   | ---                              | ---                               | ---                           | ---                | ---                   | ---     | ---      |
| ECG2401              | PNP-Si, RF Amp, Osc, Mixer, VHF/FM  | 30                                 | 30                                    | 4                                | 25 mA                             | .300                          | 450 typ            | ---                   | SOT-23  | T20-4    |
| ECG2402              | NPN-Si, Lo Noise, UHF/VHF Amp, $G_{pE}$ 15 dB Typ (Compl to ECG2403)      | 20                                 | 15                                    | 2                                | 25 mA                             | .200                          | 5 GHz              | 40 min                | SOT-23  | T20-4    |
| ECG2403              | PNP-Si, Lo Noise, UHF/VHF Amp, $G_{pE}$ 18 dB Typ (Compl to ECG2402)      | 20                                 | 15                                    | 2                                | 25 mA                             | .200                          | 5 GHz              | 20 min                | SOT-23  | T20-4    |
| ECG2404              | NPN-Si, Darlington, Gen Purp Amp, Preamp, Driver (Compl to ECG2405)       | 40                                 | 30                                    | 10                               | .300                              | .350                          | 220                | 4K min                | SOT-23  | T20-4    |
| ECG2405              | PNP-Si, Darlington, Gen Purp Amp, Preamp, Driver (Compl to ECG2404)       | 40                                 | 30                                    | 10                               | .300                              | .350                          | 220                | 4K min                | SOT-23  | T20-4    |
| ECG2406              | NPN-Si, AF/RF Amp, Driver, Sw, $t_f = 60 \text{ nsec}$ (Compl to ECG2407) | 75                                 | 40                                    | 5                                | .800                              | .425                          | 300                | 100 min               | SOT-23  | T20-4    |
| ECG2407              | PNP-Si, AF/RF Amp, Driver, Sw, $t_f = 30 \text{ nsec}$ (Compl to ECG2406) | 60                                 | 60                                    | 5                                | .600                              | .425                          | 200                | 100 min               | SOT-23  | T20-4    |
| ECG2408              | NPN-Si, Gen Purp Amp, Lo Noise, AF/RF (Compl to ECG2409)                  | 80                                 | 65                                    | 5                                | .100                              | .200                          | 300                | 300 typ               | SOT-23  | T20-4    |
| ECG2409              | PNP-Si, Gen Purp Amp, Lo Noise, AF/RF (Compl to ECG2408)                  | 80                                 | 65                                    | 5                                | .100                              | .200                          | 150                | 350 typ               | SOT-23  | T20-4    |
| ECG2410              | NPN-Si, Gen Purp, HV, Driver, Amp (Compl to ECG2411)                      | 180                                | 160                                   | 6                                | .600                              | .350                          | 300                | 80 min                | SOT-23  | T20-4    |
| ECG2411              | PNP-Si, Gen Purp, HV, Driver, Amp (Compl to ECG2410)                      | 160                                | 150                                   | 5                                | .600                              | .350                          | 300                | 60 min                | SOT-23  | T20-4    |
| ECG2412              | NPN-Si, Gen Purp, HV Amp (Compl to ECG2413)                               | 300                                | 300 (CER)                             | 5                                | 50 mA                             | .310                          | 60                 | 50 min                | SOT-23  | T20-4    |
| ECG2413              | PNP-Si, Gen Purp, HV Amp (Compl to ECG2412)                               | 300                                | 300 (CER)                             | 5                                | 50 mA                             | .310                          | 60                 | 50 min                | SOT-23  | T20-4    |
| ECG2414              | NPN-Si, Digital w/Base Resistor (10K), Sw, Driver (Compl to ECG2415)      | 50                                 | 50                                    | 10                               | .100                              | .200                          | 250                | 30 min                | SOT-23  | T20-4    |

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

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