

# 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. |
| ECG324              | NPN-Si, AF Pwr Amp (Compl to ECG323)   | 120                                | 100                                   | 5                                | 2                                 | 1<br>( $T_A = 25^\circ\text{C}$ )  | 50                 | 50 min                | TO-39    | T6       |
| ECG325              | NPN-Si, RF PO, 14-30 MHz, 50 W   | 40                                 | 20                                    | 4                                | 7.5                               | 115  | ---                | ---                   | RF-38S   | T53      |
| ECG326              | See FET Selector Guide Page 1-57   | ---                                | ---                                   | ---                              | ---                               | ---  | ---                | ---                   | ---      | ---      |
| ECG327              | NPN-Si, Pwr Amp, Sw, $t_f = 250$ nsec  | 180                                | 150                                   | 6                                | 25                                | 200  | 40                 | 30 min<br>120 max     | TO-3     | T28      |
| ECG328              | NPN-Si, Pwr Amp, Sw  | 150                                | 130                                   | 7                                | 15                                | 140  | 60                 | 12 min<br>100 max     | TO-3     | T28      |
| ECG329              | NPN-Si, RF Pwr Amp ( $P_o$ 3.5 W min, 27 MHz)  | 60                                 | 30                                    | 2.5                              | 1.5 peak                          | 5  | ---                | ---                   | TO-39    | T6       |
| ECG330, W           | PNP-Ge, Fast Pwr Sw  | ---                                | 40                                    | 1.4                              | 25                                | 170  | ---                | 12 typ                | TO-36    | T29      |
| ECG331<br>ECG331MP* | NPN-Si, AF PO, Reg, Sw (Compl to ECG332)   | 100                                | 100                                   | 5                                | 15                                | 90   | 3 min              | 40 typ                | TO-220   | T41      |
| ECG332<br>ECG332MCP | PNP-Si, AF PO, Reg, Sw (Compl to ECG331)<br>Matched Compl Pair-Contains one each ECG331 (NPN) and ECG332 (PNP) | 100                                | 100                                   | 5                                | 15                                | 90   | 3 min              | 40 typ                | TO-220   | T41      |
| ECG333              | NPN-Si, RF PO, 14-30 MHz, 60 W   | 36 (CES)                           | 18                                    | 4                                | 15                                | 175  | ---                | 10 min                | RF-38F   | T57      |
| ECG334              | NPN-Si, RF PO, 14-30 MHz, 60 W   | 36 (CES)                           | 18                                    | 4                                | 15                                | 175  | ---                | 10 min                | RF-38S   | T53      |
| ECG335              | NPN-Si, RF PO, 14-30 MHz, 80 W   | 45                                 | 25                                    | 4                                | 20                                | 250  | ---                | 10 min                | RF-50F   | T58      |
| ECG336              | NPN-Si, RF PO, 14-30 MHz, 80 W   | 45                                 | 25                                    | 4                                | 20                                | 250  | ---                | 10 min                | RF-50S10 | T54      |
| ECG337              | NPN-Si, RF Driver, 27-50 MHz, 8 W  | 36                                 | 18                                    | 4                                | 2                                 | 20   | ---                | 5 min                 | RF-38S   | T53      |
| ECG338              | NPN-Si, RF Driver & Output, 27-50 MHz, 20 W  | 48                                 | 24                                    | 4                                | 3.5                               | 50   | ---                | 15 typ                | RF-38S   | T53      |
| ECG338F             | NPN-Si, RF Driver & Output, 27-50 MHz, 20 W  | 36                                 | 18                                    | 4                                | 4.5                               | 80   | ---                | 10 min                | RF-38F   | T57      |
| ECG339              | NPN-Si, RF PO, 27-50 MHz, 40 W   | 48                                 | 24                                    | 4                                | 7                                 | 100  | ---                | 3 min                 | RF-50S10 | T54      |
| ECG340              | NPN-Si, RF PO, Driver, 136-174 MHz, 600 mW   | 36                                 | 18                                    | 4                                | .5                                | .750<br>( $T_A = 25^\circ\text{C}$ )                                     | ---                | 70 typ                | T-16     | T20      |
| ECG341              | NPN-Si, RF PO, 136-174 MHz, 4 W  | 36                                 | 18                                    | 4                                | .640                              | 8  | ---                | 5 min                 | TO-39EC  | T7*      |
| ECG342              | NPN-Si, RF PO, 136-174 MHz, 7 W  | 35                                 | 17                                    | 4                                | 2                                 | 12.5   | ---                | 50 typ                | TO-220EC | T42*     |
| ECG343              | NPN-Si, RF PO, 136-174 MHz, 14 W   | 35                                 | 17                                    | 4                                | 3.5                               | 25   | ---                | 50 typ                | TO-220EC | T42*     |
| ECG344              | NPN-Si, RF PO, 136-174 MHz, 30 W   | 35                                 | 17                                    | 4                                | 7                                 | 50   | ---                | 50 typ                | RF-28F6  | T59      |
| ECG345              | NPN-Si, RF PO, 136-174 MHz, 30 W   | 36                                 | 18                                    | 4                                | 4                                 | 65   | ---                | 5 min                 | RF-38S   | T53      |
| ECG346              | NPN-Si, RF Driver & Predriver, 136-174 MHz, 1 W  | 40                                 | 20                                    | 2                                | .4                                | 1<br>( $T_A = 25^\circ\text{C}$ )<br>3.5<br>( $T_C = 25^\circ\text{C}$ ) | 500                | 10 min                | TO-39    | T6       |
| ECG347              | NPN-Si, RF PO, 136-174 MHz, 3 W  | 36                                 | 18                                    | 4                                | .6                                | 15   | ---                | 5 min                 | RF-38SM  | T51      |
| ECG348              | NPN-Si, RF PO, 136-174 MHz, 4 W  | 36                                 | 18                                    | 4                                | 1                                 | 12   | ---                | 5 min                 | RF-38S   | T53      |
| ECG349              | NPN-Si, RF PO, 136-174 MHz, 10 W   | 36                                 | 18                                    | 4                                | 2                                 | 30   | ---                | 5 min                 | RF-38S   | T53      |

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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