

# Transistors (cont'd) (Maximum Ratings at T<sub>C</sub> = 25°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>ECG107</b>                     | NPN-Si, UHF/VHF Amp, Osc, Mix, IF Amp                                                                                                | 35                                        | 35                                           | 5                                       | 50 mA                                      | .250<br>(T <sub>A</sub> = 25°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<br>(T <sub>A</sub> = 25°C)                                  | 800 min                     | 20 min                       | TO-92   | T16      |
| <b>ECG121</b><br><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<br>(T <sub>A</sub> = 25°C)                                  | 250                         | 150 typ                      | TO-39   | T6       |
| <b>ECG123A</b>                    | NPN-Si, AF/RF Amp, Sw                                                                                                                | 75                                        | 40                                           | 6                                       | .8                                         | .500<br>(T <sub>A</sub> = 25°C)                                  | 300                         | 200 typ                      | TO-18   | T2       |
| <b>ECG123AP</b>                   | NPN-Si, AF/RF Amp, Driver (Compl to ECG159)                                                                                          | 75                                        | 40                                           | 6                                       | .6                                         | .500<br>(T <sub>A</sub> = 25°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<br>(T <sub>A</sub> = 25°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<br>(T <sub>A</sub> = 25°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><br><b>ECG129MCP</b> | PNP-Si, AF Preamp, Driver, Output, Video Amp (Compl to ECG128)<br>Matched Compl Pair-Contains one each ECG128 (NPN) and ECG129 (PNP) | 90                                        | 80                                           | 7                                       | 1                                          | 1<br>(T <sub>A</sub> = 25°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><br><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><br><b>ECG131MP*</b> | PNP-Ge, AF Pwr Output (Compl to ECG155)                                                                                              | 32                                        | 20                                           | 10                                      | 3 peak                                     | 6<br>(T <sub>C</sub> = 63°C)                                     | 1                           | 110 typ                      | TC-9    | T27      |
| <b>ECG152</b><br><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><br><b>ECG153MCP</b> | PNP-Si, AF Pwr Output (Compl to ECG152)<br>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<br>(T <sub>A</sub> = 25°C)<br>7.0<br>(T <sub>C</sub> = 25°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><br><b>ECG159MCP</b> | PNP-Si, AF Premp, Driver, Sw (Compl to ECG123AP)<br>Matched Compl Pair-Contains one each ECG123AP (NPN) and ECG159 (PNP)             | 80                                        | 80                                           | 5                                       | 1                                          | .600<br>(T <sub>A</sub> = 25°C)                                  | 200                         | 180 typ                      | TO-92   | T16      |
| <b>ECG160</b>                     | PNP-Ge, RF/IF Amp, Osc, Mix                                                                                                          | 30                                        | 20 (CES)                                     | .5                                      | 10 mA                                      | .200<br>(T <sub>A</sub> = 25°C)                                  | 400                         | 20 typ                       | TO-72   | T4       |
| <b>ECG161</b>                     | NPN-Si, Video IF Amp                                                                                                                 | 45                                        | 45 (CES)                                     | 4.5                                     | 50 mA                                      | .180<br>(T <sub>A</sub> = 25°C)                                  | 800                         | 60 typ                       | TO-72   | T4       |

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