

# 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.
<b>ECG36</b> <b>ECG36MP*</b>	NPN-Si, Pwr Amp, Hi Speed Switch (Compl to ECG37)	160	140	6	12	100	15	60 min	TO-3PJ	T48-1
<b>ECG37</b> <b>ECG37MCP</b>	PNP-Si, Pwr Amp, Hi Speed Switch (Compl to ECG36) Matched Compl Pair-Contains one each of ECG36 (NPN) and ECG37 (PNP)	160	140	6	12	100	15	60 min	TO-3PJ	T48-1
<b>ECG38</b>	PNP-Si, HV AF Pwr Amp, Hi Speed Sw, $t_f = .6 \mu\text{sec}$ (Compl to ECG175)	400	350	6	2 cont. 5 peak	35	20	50 typ	TO-66	T25
<b>ECG39</b>	PNP-Si, HV AF Pwr Amp (Compl to ECG157)	300	300	3	.500	20	10	80 typ	TO-126	T45
<b>ECG40</b>	Dual NPN-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter	100	100	5	50 mA	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	150	400 min	SIP-5	T20-1
<b>ECG41</b>	Dual PNP-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter	100	100	5	50 mA	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	150	400 min	SIP-5	T20-1
<b>ECG42</b>	Dual NPN-Si, Hi Gain, Lo Noise, Differential Amp, Common Emitter	50	50	5	.100	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	150	400 min	SIP-5	T20-1
<b>ECG43</b>	Dual PNP-Si, Hi Gain, Lo Noise Differential Amp, Common Emitter	50	50	5	.100	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	100	400 min	SIP-5	T20-1
<b>ECG44</b>	Dual NPN-Si, Hi Gain, Lo Noise, Bias Amp (Common Base)	100	100	5	.100	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	100	400 min	SIP-5	T20-1
<b>ECG45</b>	Dual PNP-Si, Hi Gain, Lo Noise, Bias Amp (Common Base)	100	100	5	.100	.200/unit .400 total ( $T_A = 25^\circ\text{C}$ )	100	400 min	SIP-5	T20-1
<b>ECG46</b>	NPN-Si, Darlington Preamp, Driver, Gen Purp Amp	100	100	12	.500	.625 ( $T_A = 25^\circ\text{C}$ )	200	10000 min	TO-92	T16
<b>ECG47</b>	NPN-Si, Hi Gain, Lo Noise Amp	45	45	6	.200	.350	140	500 min	TO-92	T16
<b>ECG48</b>	NPN-Si, Darlington Hi Current Gen Purp Amp, Switch	60	50 (CES)	12	1	1 ( $T_A = 25^\circ\text{C}$ )	100 min	25000	TO-92M	T18
<b>ECG49</b>	NPN-Si, Gen Purp AF Pwr Out, Driver (Compl. to ECG50)	125	100	4	2	10	150	100 typ	TO-202	T38
<b>ECG50</b>	PNP-Si, Gen Purp AF Pwr Amp, Driver (Compl to ECG49)	125	100	4	2	10	150	100 typ	TO-202	T38
<b>ECG51</b>	NPN-Si, HV, Hi Speed Switch, $t_f = .7 \mu\text{sec}$ typ	700	400	9	4	75	4 min	25 typ	TO-220	T41
<b>ECG52</b>	NPN-Si, HV, Hi Speed Switch, $t_f = .2 \mu\text{sec}$ typ	750	450	6	5	125	---	10 typ	TO-3	T28
<b>ECG53</b>	NPN-Si, HV, Hi Speed Switch, $t_f = .7 \mu\text{sec}$ typ	850	400	9	15	175	6 min	12 typ	TO-3	T28
<b>ECG54</b> <b>ECG54MP*</b>	NPN-Si, AF Power Amp (Compl to ECG55)	150	150	5	8	50	70	100 typ	TO-220	T41
<b>ECG55</b> <b>ECG55MCP</b>	PNP-Si, AF Power Amp (Compl to ECG54) Matched Compl Pair-Contains one each of ECG54 (NPN) and ECG55 (PNP)	150	150	5	8	50	85	100 typ	TO-220	T41
<b>ECG56</b>	NPN-Si, Hi Gain, Non-Darlington Amp, Switch, Pass Reg.	100	80	6	3	30	15	500 min	TO-220	T41

Notes: \* MP - Matched pair

Package Outlines - See Page 1-78

# 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.