

# 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.
ECG2415	PNP-Si, Digital w/Base Resistor (10K), Sw, Driver (Compl to ECG2414)	50	50	10	.100	.200	250	30 min	SOT-23	T20-4
ECG2416	NPN-Si, Digital w/Base Resistor (22K), Sw, Driver (Compl to ECG2417)	50	50	10	.100	.200	250	50 min	SOT-23	T20-4
ECG2417	PNP-Si, Digital w/Base Resistor (22K), Sw, Driver (Compl to ECG2416)	50	50	10	.100	.200	250	50 min	SOT-23	T20-4
ECG2418	NPN-Si, Digital w/Base Resistor (47K), Sw, Driver, (Compl to ECG2419)	50	50	10	.100	.200	250	65 min	SOT-23	T20-4
ECG2419	PNP-Si, Digital w/Base Resistor (47K), Sw, Driver, (Compl to ECG2418)	50	50	10	.100	.200	250	65 min	SOT-23	T20-4
ECG2426	NPN-Si, Darlington Driver, Sw, $t_{off}=1.5 \mu s$ (Compl to ECG2427)	90	80 (CER)	5	.500	1	—	2K min	SOT-89	T20-5
ECG2427	PNP-Si, Darlington Driver, Sw, $t_{off}=1.5 \mu s$ (Compl to ECG2426)	90	80 (CER)	5	.500	1	—	2K min	SOT-89	T20-5
ECG2428	NPN-Si, Gen Purp Amp, Sw, $t_{off}=1.0 \mu s$ (Compl to ECG2429)	90	80	5	1	1	100	100 min	SOT-89	T20-5
ECG2429	PNP-Si, Gen Purp Amp, Sw, $t_{off}=7 \mu s$ (Compl to ECG2428)	90	80	5	1	1	100	100 min	SOT-89	T20-5
ECG2430	NPN-Si, HV, Gen Purp Amp (Compl to ECG2431)	400	350	5	1	1	70	40 min	SOT-89	T20-5
ECG2431	PNP-Si, HV, Gen Purp Amp (Compl to ECG2430)	350	300	4	1	1	15	30 min	SOT-89	T20-5
ECG2501	NPN-Si, Hi Freq, Video Out (Compl to ECG2502)	300	300	5	.1	7	150	100 min	TO-126M	T45-4
ECG2502	PNP-Si, Hi Freq, Video Out (Compl to ECG2501)	300	300	5	.1	7	150	100 min	TO-126M	T45-4
ECG2503	NPN-Si, Gen Purp Amp, Hi Gain, Sw, $t_f=.06 \mu s$ Typ	30	25	15	.7	.6	270	800 min	TO-92	T16
ECG2504	NPN-Si, Gen Purp, Hi Gain Amp, Sw, $t_f=.1 \mu s$ Typ	30	25	15	2	15	260	1500 typ	TO-126M	T45-3
ECG2505	NPN-Si, Gen Purp, Hi Gain, Sw, $t_f=.1 \mu s$ Typ	30	25	15	2	1	260	1000 min	M-71	T20-3
ECG2506	NPN-Si, Hi Freq, Video Drvr	115	95	3	.4	5	1GHz	50 min	TO-126	T45
ECG2507	NPN-Si, Hi Freq, Video Out	200	200	5	.3	20	400	40 min	TO-220	T41
ECG2508	NPN-Si, Hi Freq, Video Out (Compl to ECG2509)	120	120	3	.3	8	400	100 min	TO-126M	T45-4
ECG2509	PNP-Si, Hi Freq, Video Out (Compl to ECG2508)	120	120	3	.3	8	400	100 min	TO-126M	T45-4
ECG2510	NPN-Si, Hi Freq, Video Out	30	20	3	.5	5	2GHz	100 Typ	TO-126M	T45-4
ECG2511	NPN-Si, Hi Freq, Video Out (Compl to ECG2512)	80	60	4	.5	10	800	100	TO-126	T45
ECG2512	PNP-Si, Hi Freq, Video Out (Compl to ECG2511)	80	60	4	.5	10	800	100	TO-126	T45
ECG2513	NPN-Si, Hi Freq, Pwr Amp, Sw $t_f=20 ns$ (Compl to ECG2514)	60	50	6	8	20	180	140 min	TO-126M	T45-3
ECG2514	PNP-Si, Hi Freq, Pwr Amp, Sw $t_f=20 ns$ (Compl to ECG2513)	60	50	6	8	20	180	140 min	TO-126M	T45-3

Notes: \* MP- Matched Pair

# Frequency at which common emitter current is 70.0% of low frequency gain

• When alternate packages are shown it indicates a change 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